Mrs. McAfee

# UNDER-GRADUATE STUDIES

1970
1971

# WEST CHESTER STATE COLLEGE BULLETIN

# ACADEMIC CALENDAR 1970-1971

(See Graduate Catalogue for Graduate Academic Calendar)

## FALL SEMESTER 1970

| | | | |
|---|---|---|---|
| AUGUST | Saturday | 1 | Last day to qualify for admission |
| SEPTEMBER | Wednesday | 9 | Faculty meetings<br>NOTE: No Registration Days in September. All scheduling for Fall Semester 1970 took place in May, 1970. All registration completed by mail |
| | Monday | 14 | Classes begin (both part-time and full-time students) |
| NOVEMBER | Tuesday | 24 | Thanksgiving recess begins (as classes end) |
| | Monday | 30 | Chester County Institute |
| DECEMBER | Tuesday | 1 | Thanksgiving recess ends 8:00 a.m. |
| | Tuesday | 1 | Spring Semester Scheduling for enrolled students begins. (Dec. 1 thru Dec. 4.) Registration to be completed by mail |
| | Friday | 4 | Last day for enrolled students to schedule for Spring Semester |
| | Tuesday | 15 | Last day to qualify for admission, Spring Semester |
| | Saturday | 19 | Christmas recess begins (as classes end) |
| JANUARY | Monday | 4 | Christmas recess ends 8:00 a.m. |
| | Thursday | 14 | Final examinations begin (end January 22) |
| | Friday | 22 | Fall Semester ends |

## SPRING SEMESTER 1971

| | | | |
|---|---|---|---|
| JANUARY | Monday | 25 | Classes begin (both part-time and full-time students)<br>NOTE: No Registration Days in January. All scheduling for Spring Semester 1971 takes place first week in December, 1970. All registration to be completed by mail |
| FEBRUARY | Friday | 19 | Washington's Birthday recess begins (as classes end) |
| | Tuesday | 23 | Washington's Birthday recess ends 8:00 a.m. |
| APRIL | Saturday | 3 | Spring-Easter recess begins (as classes end) |
| | Tuesday | 13 | Spring-Easter recess ends 8:00 a.m. |
| MAY | Monday | 3 | Fall Semester Scheduling for enrolled students begins. (May 3 thru May 5.) Registration to be completed by mail |
| | Wednesday | 5 | Last day for enrolled students to schedule for Fall Semester |
| | Thursday | 13 | Final examinations begin (end May 21) |
| | Saturday | 22 | Alumni Day |
| | Sunday | 23 | Commencement |

## SUMMER SESSIONS 1971

| | |
|---|---|
| June 7—June 25 | Pre Session |
| June 28—August 6 | Regular Session |
| August 9—August 27 | Post Session |

The College reserves the right to change the Academic Calendar if deemed necessary.

West Chester State College Bulletin

# Undergraduate studies 70-71

VOLUME 98/NUMBER 5
WEST CHESTER, PENNSYLVANIA 19380
APRIL 1970

*West Chester State College is accredited by*
*The Middle States Association of Colleges*
*and Secondary Schools, The*
*National Council for Accreditation of Teacher Education,*
*The American Association for Health, Physical Education,*
*and Recreation, and*
*The National Association of Schools of Music.*

## Erratum

At press time, the College cancelled plans to introduce the two six-week Summer Sessions described on Pages 14, 35, and elsewhere in this and the 1970 Summer Bulletins for Undergraduate and Graduate Studies. The reader should therefore disregard all references to the two-session summer program. The College will conduct its 1971 summer classes in the traditional format of a Pre, Regular, and Post Session as follows:

1971 SUMMER SESSIONS

| | |
|---|---|
| Pre Session | June 7—June 25 |
| Regular Session | June 28—August 6 |
| Post Session | August 9—August 27 |

The provisions of this Bulletin are not to be regarded as an irrevocable contract between the student and the College. West Chester State College reserves the right to change any provisions or requirements at any time within the student's term of residence.

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## COMMONWEALTH OF PENNSYLVANIA

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| GEORGE W. HOFFMAN | *Director of the Bureau of State Colleges and Universities* |

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WEST CHESTER STATE COLLEGE

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Albert E. Filano, *Vice President for Academic Affairs*

## Undergraduate Degree Programs Offered at West Chester

### Teacher Education

ELEMENTARY EDUCATION

SECONDARY EDUCATION

Comprehensive English

Foreign Languages
- French
- German
- Latin
- Russian
- Spanish

Geography

Mathematics

Sciences
- Biology
- Chemistry
- Comprehensive Science
- Earth and Space Science
- Physics

Social Sciences
- Comprehensive Social Studies
- History

Speech and Theatre

HEALTH AND PHYSICAL EDUCATION

Health Education

Health and Physical Education

MUSIC EDUCATION

SPECIAL EDUCATION

Speech Pathology and Audiology

COOPERATIVE DEGREE PROGRAMS FOR:

Dental Hygienists

Public School Nurses

#### Special Certification Programs Offered

HEALTH AND PHYSICAL EDUCATION

Education for Safe Living

SPECIAL EDUCATION

Teaching the Mentally Retarded

Teaching the Physically Handicapped

### Arts and Sciences

ARTS AND LETTERS

Art

Foreign Languages
- French
- German
- Latin
- Russian
- Spanish

Literature

Philosophy

Speech Arts

Theatre Arts

SCIENCES

Biology

Chemistry

Physics

MATHEMATICS

MUSIC

B.A. Degree

B.Mus. Degree

SOCIAL AND BEHAVIORAL SCIENCES

Economics

Geography

History

Political Science

Psychology

Sociology–Anthropology

Social Work

BUSINESS ADMINISTRATION

INTERDISCIPLINARY PROGRAMS

American Studies

Latin–American Studies

Russian Studies

# Introducing West Chester

West Chester is a multi-purpose college with a student body of more than 5,800 full-time undergraduates. Nearly one thousand additional undergraduates attend the College as part-time students and still another 1,500 are enrolled (mainly on a part-time basis) for graduate studies. West Chester is thus the second largest of the fourteen institutions of higher learning which the Commonwealth owns and maintains for the youth of Pennsylvania. The College offers the Bachelor of Arts, Bachelor of Science, Bachelor of Music, Master of Arts, Master of Science, and Master of Education degrees. Its objectives are to prepare teachers for Pennsylvania's public schools and to provide a liberal arts education for its youth.

The B.S. in Education degree is given in four basic curricula—elementary, secondary, music education, and health and physical education—and in one area (speech pathology and audiology) of special education. Degree curricula for public school nurses and dental hygienists are also provided. The College has a program of courses designed to meet certification requirements in safety education and in the special education fields which train for the teaching of mentally retarded and physically handicapped children.

West Chester also maintains an extensive two-track program for teachers in service. One phase is composed of late-afternoon, evening, and Saturday-morning courses for those desiring to satisfy various professional needs, including certification requirements. The second is a graduate program (see below).

Inaugurated in 1962, the liberal arts program now leads to the Bachelor of Arts degree in arts and letters, social and behavioral sciences, sciences, mathematics, and music; to the Bachelor of Music, and to the Bachelor of Science in Chemistry and in Business Administration, which may be pursued either as a day or an evening program.

The continued growth and improvement of the College's curricular offerings is an ongoing concern of the Administration and the faculty. Under the leadership of the Vice President for Academic Affairs and the Undergraduate Council, periodic evaluations are made, with emphasis on both subject matter content and methods of teaching. Special *ad hoc* committees make continuous study of a broad range of curricular problems and report their findings and recommendations to the faculty and the Administration.

The various programs at West Chester are comprehensive and designed to satisfy the intellectual, physical, and spiritual needs of all students. A wide span of extracurricular activities affords each student opportunities to mingle purposefully with his fellow students and his faculty, and to seek the fullest expression of his talents and capacities.

## WEST CHESTER'S HISTORY

The present College traces its history back to the West Chester Academy, founded in 1812. Since then, an educational institution bearing the name of West Chester, and figuring importantly in the history of teacher education in Pennsylvania, has been in existence. The College has acquired its present dimensions through a series of changes, largely determined as the Commonwealth assumed increasing responsibility for the education of the youth of Pennsylvania.

West Chester Academy was classified as a "state-aided County Academy." It was non-sectarian and privately owned. James Pyle Wickersham, the nineteenth century educator and diplomat, once spoke of it as "for more than fifty years one of the leading schools of its class in eastern Pennsylvania."

In 1869, under encouragement from the Commonwealth, the Academy was closed, and its properties were sold, to make way for a district normal school. Funds from the sale helped to finance the West Chester State Normal School which, on September 25, 1871, opened the doors of its single stately building to 160 students. (That first building, with wings added, came to be known as Old Main.) West Chester State Normal School continued as a privately owned but state-certified institution until 1913, when it became the first of the Pennsylvania normal schools to be owned outright by the Commonwealth.

In 1927, Pennsylvania initiated a four-year program of teacher training and named the school West Chester State Teachers College. The Legislature paved the way for an even broader program on January 8, 1960, when the College acquired its present name.

## LOCATION OF THE COLLEGE

West Chester State College is in West Chester, a town which has been the seat of government in Chester County since 1786. With a population of 16,700, the Borough proper is small enough to have the pleasant aspects of a tree-shaded American town, large enough to contain essential services and the substance of a vigorous community, and old enough to give the student first-hand touch with America's early history.

Students may walk to West Chester's many churches. West Chester has excellent stores and shops, and a fine hospital. The heart of the town is its courthouse, a Classical Revival building designed in the 1840's by Thomas U. Walter, one of the architects for the Capitol in Washington, D.C. Where the courthouse stands, a crossroads hamlet existed for years before the American Revolution. West Chester's first settlers were largely members of the Society of Friends who came to the Colony under William Penn's persuasion. These colonists and their descendants were leaders in the fashioning of a community of grace and charm, and in the development of a culture which produced a remarkable number of artists, writers, and scientists. The imprint of these flowering years—the first half of the nineteenth century particularly—is still evident, though the town is becoming the heart of a suburban area linked with Philadelphia.

In this growing area, described as Greater West Chester and comprising about 50,000 persons, students of the social sciences find abundant opportunities for the study of local, county, and regional government in an era caught in dynamic change.

The proximity of Philadelphia (25 miles east) and of Wilmington (15 miles south) puts the resources of both cities in convenient range. West Chester is near Valley Forge, the Brandywine Battlefield, Longwood Gardens, and other historic attractions of Chester County.

### How to Reach the College

*Route* 3 (West Chester Pike) from Philadelphia.
*Route* 100 *South* from Downingtown Interchange of Pennsylvania Turnpike.
*Red Arrow Buses* from 69th Street Terminal in Philadelphia.
*Short Line Buses* from the Paoli, Downingtown, Coatesville, or Wilmington stations of Penn Central railroad.
*Penn Central Railroad* from Philadelphia to West Chester (limited schedule).

Locally, the Short Line has bus service from the West Chester terminal to the campus, a distance of one mile.

South High Street (Route 100) leads directly to the College.

## NORTH AND SOUTH CAMPUS

As a result of an expansion program undertaken more than a decade ago, the physical plant of the College is greatly enlarged today. Now contained on two campuses, West Chester has more than 30 major buildings and a land area of 346 acres. Most of the facilities are on North Campus, where the original campus, at the southern edge of the Borough, has grown to 82 acres. The new South Campus, one-half mile south via New Street, is a 264-acre expanse of gently sloping land affording a wide and pleasing view of rural Chester County. Earmarked for future development, this land now contains the new $4-million Health and Physical Education Center and John A. Farrell Stadium, along with various playing and practice fields. The Center's facilities have been nationally commended in the health and physical education field. The building's handsome architectural features place it among the major academic centers of the Commonwealth.

Architecturally, North Campus is a harmonious composite of styles of the late nineteenth century, collegiate Gothic, and the contemporary. A hallmark of West Chester has always been its unusual green-hued serpentine stone, quarried in Chester County and used to build the school's earliest halls. The College is also known for the magnificent old trees which web North Campus.

The $44,000,000 building program of the past decade has produced a number of major facilities and utilities which equip the College well for the needs of modern education. The Learning Research Center, the new library, and the two phases of Schmucker Science Center are important new additions. Five (soon to be six) high-rise residence halls, spanning the western side of North Campus, are dramatic contemporary elements of the West Chester scene.

The principal buildings on North Campus are:

*Administration Building* (1899), formerly Old Demonstration, which contains the offices of Undergraduate Studies, Graduate Studies, Admissions, Scheduling and Academic Records, Cultural Affairs, and Public Relations.

*Anderson Hall* (1938), a large, five-floor classroom building, extensively modernized in 1966, which houses the administrative offices of the School of Education, the School of Arts and Letters, and the School of Social and Behavioral Sciences, as well as several special services.

*Elsie Oleita Bull Learning Research Center* (1968), housing the Laboratory School, computer center, a television studio, and research offices.

*Ehinger Gymnasium* (1930) and *Hollinger Field House* (1949), connected buildings containing facilities of the School of Health and Physical Education.

*Francis Harvey Green Library* (1966), described below.

*Lawrence Center* (1965), which contains dining halls, the campus post office, the College radio station, a snack bar, a student lounge, and Student Affairs offices.

*Maintenance Building* (1968), a multi-purpose building accommodating the Plant Maintenance, Housekeeping, and Security Departments; various maintenance shops; the Centrex Automatic telephone exchange; and the fire detection center.

*Lloyd C. Mitchell Hall* (1970), a fine-arts classroom building, expected to be in use in the fall of 1970. It will contain Department of Art facilities, galleries, the language laboratory, and additional classrooms, practice rooms, and offices for the School of Music, whose building (Swope Hall) adjoins the new hall.

*Old Gym* (1890), a landmark building in the field of health and physical education. This charming serpentine, facing the quad, now meets various needs of the School of Health and Physical Education and contains a snack bar.

*Old Library* (1902), a Classical Revival building of great beauty, now serving temporary purposes but scheduled for supplemental services to the forthcoming library complex.

*Old Main* (1871), the College's original building. Its two wings and annex were added between 1878 and 1886. After nearly a century of use as a residence hall and a classroom and administration facility, this historic serpentine structure is scheduled for demolition.

*Philips Memorial Hall* (1925), an outstanding example of collegiate Gothic, this stone building houses the Offices of the President, the College's largest auditorium, Philips Memorial Library, a ballroom, the faculty lounge, conference rooms, the Office of Business Affairs, and administrative offices for the Division of Facilities.

*Recitation Hall* (1892), a classroom building which houses the Department of Foreign Languages, Studio 208, and the College Bookstore. Recitation is a serpentine building.

*Reynolds Hall* (1871), a former farm home of serpentine now occupied by the College Health Service and the Placement Service.

*Schmucker Science Center* (1968), a two-phase center including the Biological Sciences and Physical Sciences Buildings. The Center contains classrooms and laboratories, a planetarium, astronomical observatory, television studio, an auditorium, and the Darlington Museum and Herbareum. The administrative offices of the School of Sciences and Mathematics are in Schmucker.

*Special Education Building* (1960), contains classrooms, a clinic area for special education, and offices of the Coordinators of special education and urban education.

*Swope Hall* (1959), houses the School of Music, including offices, classrooms, an auditorium, choral and instrumental rooms, a music library, and a music listening room.

*Tanglewood,* a historic and handsome residence with beautiful grounds, occupied by the President of the College.

*Women's Residence Halls*: *Ramsey, Tyson,* and *Goshen,* a trio of high-rise buildings opened in 1966; *McCarthy* (1960); and *Schmidt,* a high-rise under construction and scheduled to be in use in 1970-71.

*Men's Residence Halls*: *Killinger* (1959); *Sanderson* (1970), a high-rise; and *Wayne,* also a high-rise, due to be in use in 1970-71.

A boiler plant, water pedisphere, garage, and laundry, along with several annex houses, complete the physical plant of North Campus.

South Campus facilities presently include:

*Health and Physical Education Center* (1970), which contains a one-acre gymnasium, divisible into six pneumatically sealed gymnasiums; a three-pool natatorium; multi-purpose teaching stations; research facilities; administrative offices; sixteen lecture classrooms; two dance studios, a physiological research laboratory; two physical therapy rooms; two sauna baths, and other facilities.

*John A. Farrell Stadium* (1970), providing spectator seating for 7,500 at varsity football and track events, a press box, lighting for night games, and concessions and rest areas.

*Athletic Field Complex* (1969-70), playing and practice fields for football, hockey, soccer, lacrosse, and baseball; tennis courts; night lighting; and parking for 1,000 cars.

## Future Expansion

To keep pace with ever-increasing enrollments, the College is now moving into the third phase of a long-term expansion program begun in 1958 under the Master Plan for Higher Education in Pennsylvania and involving an expenditure expected to reach $65-million.

Old Main, having outlived its usefulness, is scheduled for demolition during the 1970-71 academic year and will make way for an additional phase of the Francis Harvey Green Library as well as a humanities classroom building. Among other future projects for which funds have been requested under Phase III are a new Graduate Center, a new Administration Building, a Student Life and Health Center, two more residence halls, a second dining hall, and second phases of the Health and Physical Education Center and the Maintenance Building.

FRANCIS HARVEY GREEN LIBRARY

West Chester students enjoy the space, beauty, conveniences, and modern equipment of the new Francis Harvey Green Library. Opened in the fall of 1966, the handsome contemporary building provides a setting highly conducive to study and research. The present building is the first of two phases, the second of which is now being planned.

With a collection of more than 200,000 volumes and subscriptions to more than 2,500 journals, the library is rapidly growing and is an increasingly important resource for both teaching and research. The library's curriculum laboratory contains an extensive collection of courses of study and textbooks as well as a wide variety of audio-visual materials. Its collection of sheet music, scores, and records is housed in Swope Hall.

The general collection is augmented by an extensive micromedia collection representing more than 300,000 volumes. The micromedia material includes books, periodicals, newspapers, and doctoral dissertations. Adequate facilities for reading this material are available. The special-collection room houses the Chester County Collection of Scientific and Historical Books; the Normal Collection (a collection of historical books on physical education and publications by and about the faculty and alumni); the *Biographies of the Signers of the Declaration of Independence,* by John Sanderson; and the Shakespeare Folios. Other collections of importance are the juvenile, curriculum, and music collections and the Philips collection of autographed books. As part of a statewide program to promote world cultural understanding, the library is developing an extensive collection of materials on French culture.

The many services of the library are available to all undergraduate students. Of particular interest are the reference, interlibrary loan, and photoduplication services. The library also mounts art and photographic exhibits of note throughout the year.

## EDUCATIONAL SERVICES

BUREAU OF EDUCATIONAL MEDIA SERVICES. The College Educational Media Bureau provides assistance for instructional personnel who are planning and producing educational media used in their courses. The Bureau supplies the campus with audio-visual equipment and houses the College Film Library. The closed-circuit television system is operated by the Bureau, and segments of appropriate courses are taught by television. Another service of the Bureau is production in the areas of motion pictures and still photography, recording, duplicating, and overhead transparencies.

THE DELAWARE-CHESTER REGIONAL INSTRUCTIONAL MATERIALS CENTER. West Chester serves as headquarters for the Delaware-Chester Regional Instructional Materials Center, an affiliation of some 35 Chester and Delaware County school districts. The Center, which is one of 26 such regional operations initiated by the State, makes more than 4,000 films available to its member schools. It also maintains various services which promote the use of audio-visual materials in the public schools of the two counties. College faculty and student teachers may make use of the Center's facilities.

BUREAU OF RESEARCH AND RELATED SERVICES. The Bureau of Research and Related Services fosters the development of basic, applied, and institutional research and provides facilities for the tabulation and analysis of research data. The research function of the Bureau encompasses studies initiated by the faculty and administrative staff of the College as well as cooperative endeavors carried on under the joint sponsorship of the College and various external educational agencies and foundations. The Bureau assists faculty and students to secure financial support for their research projects. A computer center, statistical laboratory, and research facilities are maintained in the Learning Research Center.

Data processing services include the tabulation and summarization of information essential to the operation of the various administrative divisions of the College and the statistical treatment and computer analysis of experimental data obtained from faculty and student research activities. The Department of Mathematics offers courses in computer science.

THE EDUCATIONAL DEVELOPMENT CENTER. The Educational Development Center, cooperatively maintained at West Chester and Cheyney State College, is part of a state-wide network of agencies established by the Pennsylvania Department of Education for the improvement of education through regional cooperation. The Center serves public, private, and parochial schools and agencies and public and private teacher-education colleges within Bucks, Chester, Delaware, and Montgomery Counties. Its program includes (1) publication of *Curriculum Highlights,* a newsletter, (2) sponsorship of educational seminars, and (3) assistance to local schools and communities in securing grants and conducting programs under Title I and Title III of the Elementary and Secondary Education Act and Title V of the Educational Professions Development Act (P.L. 90-35). Participation by educational agencies is on a voluntary basis. The Center is administered by a director at West Chester and an area curriculum coordinator at Cheyney.

## THE HIGHER EDUCATION OPPORTUNITY PROGRAM

The Higher Education Opportunity Program (HEOP), launched in the summer of 1968, seeks to give disadvantaged high school students the fullest possible opportunity to progress successfully in college study. From its service area, the College selects a racially integrated group of

students who, owing to deficiencies in their socio-economic backgrounds, would normally lack the means, the incentive, and the academic qualifications for admission to West Chester. These students study in an academic and cultural environment designed to compensate for various deficiencies and to give the participants the optimum setting for realizing potentials signaled by their performances in high school.

A lightened first-semester credit load and tutorial and remedial help are among the academic aspects of HEOP, which also includes intensive counseling and a rich exposure to art, music, drama, literature, and sports. The academic growth of the first class under the HEOP program gave high promise that the program will prove to be a successful one.

## OFFICE OF CULTURAL AFFAIRS

In answer to a need that had mounted with the College's increasing enrollment and expanding activities, the College, in the summer of 1968, created an Office of Cultural Affairs and appointed a director for it. Functioning as the center for the development, scheduling, and coordination of all cultural events, the Office has placed an important new focus upon the multitude of special programs which keep lights burning in at least one assembly hall virtually every night of the year. The constantly increasing events which clear through the Director of Cultural Affairs range over the areas of music, art, dance, cinema, and theater arts, on to lectures, institutes, symposiums, and clinics which supplement the educational experiences of students in a multi-purpose institution.

## THE SPEECH AND HEARING CLINIC

The Speech and Hearing Clinic of West Chester State College provides evaluation and therapy for children with speech and hearing handicaps from the Borough of West Chester and surrounding areas. The clinic also serves as a speech improvement center for College students who need help in meeting minimal speech standards. The Department of Speech and Theatre conducts the clinic, located at 620 South High Street.

## STUDY IN EUROPE

West Chester offers two study experiences which take place in Europe. The Junior Year Abroad Program, sponsored by the College, permits prospective teachers of French to spend two undergraduate semesters at the University of Montpellier in France. The program is described under the Department of Foreign Languages.

The second project is an annual European summer tour conducted by the School of Social and Behavioral Sciences. The tour includes seminars and lectures along the route, which crosses through the past and present of some ten European countries. Students visit museums, galleries, and cathedrals and attend operas, music festivals, and other cultural events. Six credits in history or the social sciences may be earned during the six-week tour, which is open to all undergraduate and graduate students. A faculty member from the School of Social and Behavioral Sciences is always in charge. Details may be obtained from the School.

## OCEANOGRAPHY CONSORTIUM

As a participant in the new Delaware Bay Marine Science Consortium, West Chester provides students in the sciences and geography with opportunities for field study in oceanography. The Consortium, an affiliation of eight Pennsylvania State Colleges and Indiana University of Pennsylvania, was launched in 1968. Its field station is located in Lewes, Delaware, where both undergraduate and graduate students may attend summer courses engaged in direct study of the Atlantic Ocean. Although primarily a summer project at present, the developing program has begun to include field trips to the station as part of fall and spring semester course work in oceanography. Detailed information may be obtained from the School of Sciences and Mathematics.

## GRADUATE STUDIES

West Chester's graduate program, introduced in 1959, has expanded rapidly and now offers study leading to the Master of Education in 17 disciplines and the Master of Arts and Master of Science in a number of fields. With the in-service teacher particularly in mind, West Chester designs its graduate studies for the fall and spring semesters around a schedule of late-afternoon, evening, and Saturday-morning classes. It is possible to undertake full-time graduate programs during the academic year and in Summer Sessions. The 1970 Summer Session schedule is given in the calendar. The Pre Session holds classes in early evenings; the other two Sessions meet in daytime hours. See below for changes in 1971 Summer Session program. Catalogues and further information may be obtained from the Dean of Graduate Studies.

The following graduate programs are available:

**Certification and/or Master of Education**

Biology
Chemistry
Counselor Education
(For those seeking certification, the master's degree is required)
Elementary Education
English
French
Geography
German
Health and Physical Education
Instructional Media Education
Latin
Mathematics
Music Education
Physical Science
Physics
Social Science
Spanish

**Master of Arts**

Biology
English
History
Mathematics
Music
French
German
Latin
Spanish

**Master of Science**

Chemistry
Educational Research
Health and Physical Education

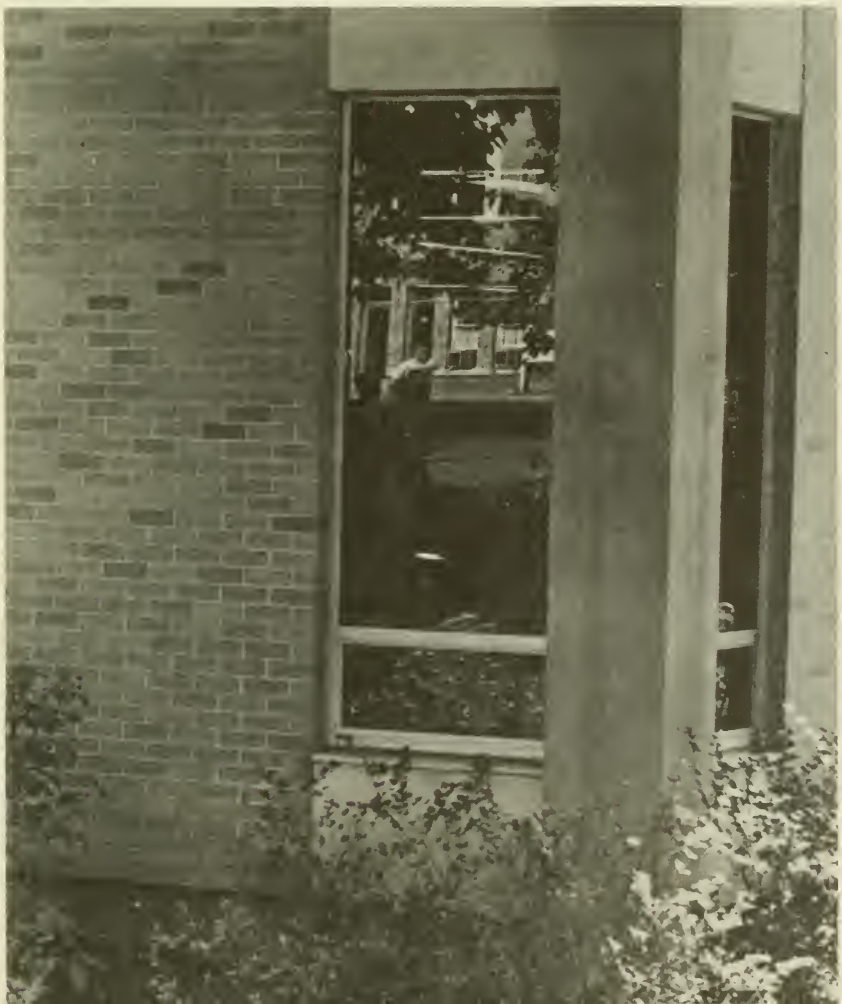
## SUMMER SESSIONS

West Chester offers programs for both undergraduates and graduates at summer sessions. Beginning with the summer of 1971, the summer schedule will be altered from its present Pre, Regular, and Post Sessions (three, six, and three weeks respectively) to two six-week sessions. No student may secure more than six semester hours of credit in one six-week session unless he has permission from the Dean of Undergraduate Studies (for undergraduates) or the Dean of Graduate Studies (for graduates).

Detailed information about the undergraduate sessions may be obtained from the Director of Admissions; about the graduate sessions from the Dean of Graduate Studies.

## THE ALUMNI

West Chester has a large and active alumni association whose members demonstrate a marked devotion to the College. The Association holds its annual meeting during Alumni Day—the Saturday preceding Commencement Sunday. Branch organizations are maintained in a number of communities. The Officers of the West Chester State College Alumni Association are shown following the faculty directory.



# Admission to West Chester

Admission to West Chester State College is generally based upon the satisfactory completion of the college preparatory program in the secondary schools. In exceptional circumstances an outstanding student may enter from another curriculum.

No more than five per cent of each Freshman Class at West Chester may be composed of out-of-state students, who are admitted on a highly selective basis. In addition to meeting the College's requirements they must have special abilities, particularly in fields where the demand for teachers is acute and in professions and industries where college-trained personnel is urgently needed.

*West Chester welcomes qualified students, faculty, and staff from all racial, religious, ethnic, and socio-economic backgrounds.*

## SECONDARY SCHOOL REQUIREMENTS

The candidate must furnish evidence of graduation, with satisfactory scholarship, from an approved secondary school. If a student has attended a non-accredited school, or his preparation is unusual otherwise, the College will submit his credentials to the Credentials Evaluation Division of the Pennsylvania Department of Education, which will determine whether they are acceptable.

## COLLEGE BOARD EXAMINATIONS

*Required.* Every candidate must take the College Entrance Examination Board's scholastic Aptitude Test (SAT) and its English Composition Achievement Test.

Applicants for the secondary education curriculum are also required to take the achievement test related to their intended major field. If that field is English, and if they have had a foreign language, they must take the foreign-language achievement test.

Applicants for an arts and sciences program must take the achievement test relating to their major field and, if they have had a foreign language, the achievement test in that language.

Candidates for the Bachelor of Arts program in the School of Music must also take a foreign-language achievement test, if they have studied a foreign language.

Candidates for the B.S. in Business Administration are required to take only SAT and the English Composition Achievement Test.

*Recommended.* Candidates for all other curricula are urged to take one achievement test of their choice in addition to the required English Composition Achievement Test.

*Provisional Approval.* Students with satisfactory scores on the Scholastic Aptitude Test may be provisionally approved for admission, with the understanding that their subsequent achievement test scores in their field must be adequate.

*Policy for Deficient Scores.* Students admitted with low scores in the English Composition Achievement Test will have to take a remedial English course, either in the summer sessions preceding their freshman year or during their first semester.

*Arranging for Tests.* Application forms and such pertinent information as "time and place" may be obtained from high school guidance counselors or the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey 08540.

*When Tests are Given.* College Board Examinations are offered in November, December, January, March, May, and July, but applicants who take the Scholastic Aptitude Test no later than January will be given preference for September admission. Achievement tests in the fields of English, foreign languages, mathematics, and social and behavioral sciences should be taken in December, January, or March. Achievement tests in such one-year subjects as chemistry and physics may be taken in May.

*Submitting Scores to West Chester.* The scores must be sent directly to the Office of Admissions by the College Entrance Examination Board. Either junior or senior year scores will be accepted.

## REQUIRED REFERENCES

*Health.* The College requires a satisfactory medical report certifying that the applicant is in sufficiently good health to meet the demands of the College program. Forms for the necessary health examination are supplied by the College at the proper time.

*Character.* A written evaluation of the applicant must be included with the transcript. The evaluation may come from the principal, a guidance staff member, or another school official, and should appraise the student's character, personality, interests and abilities within the school community, and his promise of development.

## REQUIRED INTERVIEWS AND CONFERENCES

Before making a favorable decision upon an application, the College asks the student to come for either an interview or an admissions conference.

## CITIZENSHIP REQUIREMENT FOR TEACHERS

To be eligible for a teacher's certificate in Pennsylvania, a student must be a citizen of the United States. Exception is made for foreign languages, for which aliens may be certified on a three-year basis.

## ADDITIONAL REQUIREMENTS AND RECOMMENDATIONS IN SPECIFIC FIELDS

*Foreign Languages.* Although previous study in foreign languages is not required, the College views it as highly desirable for those who intend to teach in the fields of foreign languages or English and for those pursuing an arts and sciences program.

*Mathematics.* Students intending to elect mathematics as their major field must present three secondary units of mathematics, including algebra and plane geometry.

*Health and Physical Education and Health Education.* See School of Health and Physical Education for additional admissions requirements.

*Music.* See School of Music for additional admissions requirements.

## HOW AND WHEN TO APPLY FOR ADMISSION

Candidates may obtain forms and instructions by sending the request form at the back of this catalogue to the Director of Admissions.

Candidates for the fall semester are urged to initiate the application procedure immediately after completing their junior year of secondary school. Facilities permitting, the Director of Admissions will accept applications throughout the winter and spring of the year in which admission is desired.

Candidates for the spring semester should submit the request by November 1. They must take their College Board tests no later than July.

Out-of-state students should write to the Office of Admissions, giving the reasons for their interest in West Chester, their desired field of study, their scholastic records, and their scores on the College Board achievement tests.

*Fees.* See Expenses.

*Last Day for Admission of New Freshmen.* All application procedures must be completed and in the Office of Admissions by August 1 for a fall semester or December 15 for a spring semester. If enrollment quotas become filled before these dates, admissions will be closed.

*Notice of Decisions.* Candidates will hear from the Director of Admissions soon after decisions are reached. The secondary schools of those seeking admission as freshmen will also be notified.

## READMISSION OF FORMER STUDENTS

Students who have withdrawn from West Chester for acceptable reasons may ask the Office of Admissions for an application for readmission. Those who have attended any institutions of higher learning since leaving West Chester must request those institutions to forward transcripts of their records to the Office of Admissions.

Students intending to enroll in student teaching in the first semester of readmission must file an application for student teaching with the Director of Student Teaching at least four months before their expected readmission.

Students who were dismissed or asked to withdraw for academic reasons, and those who withdrew with a scholastic index less than required for their classification, will not be considered for readmission as full-time students for at least one semester, and then only if their scholastic index has been raised by attendance at evening classes or summer sessions at West Chester to that required for their classification.

Readmission to West Chester as a degree candidate is not possible if the student has been permanently (i.e., twice) dismissed because of academic failure.

All readmission applications must be filed not later than August 1 for the fall semester or December 15 for the spring semester. If enrollment quotas become filled before these dates, admissions will be closed. (Consult also Academic Information.)

## ADMISSION OF COLLEGE GRADUATES SEEKING TEACHING CERTIFICATES

Graduates of other colleges who wish to obtain teaching certification may be admitted as special students.

## ADMISSION OF TRANSFER STUDENTS

Students previously enrolled in any institution of collegiate rank, no matter how briefly, are classified as *transfer students.* A cumulative grade-point average of 2.00 or higher is required for their admission to West Chester.

No more than five per cent of the College's transfer enrollment may be students who are not legal residents of Pennsylvania. Out-of-state students will be admitted selectively, on the basis of special abilities

and of particular needs for teachers in certain fields and for college-trained personnel in various professions and industries.

The last day to qualify for admission to the fall semester is August 1 and for the spring semester, December 15. If quotas are filled prior to those dates, enrollment will be closed earlier. Actually, September quotas are usually reached in April.

An applicant must file transfer application forms, obtainable from the Office of Admissions, and must also see that the Director of Admissions receives the following material:

(1) An official transcript of record from each institution attended. To be acceptable, this must show honorable dismissal. If a preliminary (incomplete) transcript is submitted, it is the student's responsibility to have a completed transcript filed later.

(2) A letter of recommendation from the Dean of Men (for men) or the Dean of Women (for women) of the last college attended full-time. To qualify the student for admission, the letter must state that the student's disciplinary record was entirely satisfactory.

(3) Two letters of recommendation from persons (not relatives) who have known the applicant well in his home community.

(4) A letter from the applicant, explaining fully his reasons for wishing to transfer to West Chester.

(5) Students with less than two semesters of college experience (less than 30 semester hours of credit) must supply College Board Scholastic Aptitude Test scores. These must meet the College's minimum for the curriculum concerned.

It is the applicant's responsibility to ask the Office of Admissions for an appointment for a required interview, after an application, including either a preliminary or final transcript, is on file.

Students enrolled in other institutions during the fall semester, and applying for admission the following spring semester, must supply mid-term grades for the semester in progress.

Admission of qualified transfer students is subject to the availability of a place in the classes to which they should be assigned. Students other than commuting students will be approved only if residence facilities are available. (Consult also Academic Information.)

## ADVANCED CREDIT REQUIREMENT

Advanced credit may be granted for equivalent courses completed in *accredited* institutions of collegiate grade.

Credit will not be transferred if the course grade is the lowest passing grade of the institution assigning it. If D is the lowest passing

mark, courses so marked will not be accepted. If numerical marking is used, courses will be accepted when the grade is ten or more points above the passing mark.

Applicants from collegiate institutions (including community colleges and junior colleges) which are *not accredited* by one of the six Regional Associations in the United States will be considered for admission under the following regulations:

(1) An applicant's cumulative grade-point average must be 2.00 (C) or better and, in the cases of community and junior colleges, must meet their recommended mark for transfer.

(2) The evaluation of *academic* courses listed on transcripts from an institution not accredited by one of the six Regional Associations will be made in accordance with the recommendations of the American Association of Collegiate Registrars and Admissions Officers in their *Report of Credit Given by Educational Institutions.* Thus, if the *Report* recommends that an institution's credits be recognized for transfer, West Chester will accept them for equivalent courses, provided the grades earned are C or better.

(3) The evaluation of courses applying to the special areas of health and physical education and music will be made by the respective Schools in accordance with their policies as follows:

*a. Health and Physical Education.* Under the provisions of the national professional association, all colleges offering health, physical education, and recreation have reciprocal transfer relationships. Thus, a student wishing to transfer in health and physical education will receive transfer credits in the major field in terms of major courses satisfactorily passed (C or better) at a college accredited by the National Council for Accreditation of Teacher Education and the American Association for Health, Physical Education, and Recreation. Academic courses will be evaluated as stated in 2, above.

*b. Music.* Credit will be allowed only on the basis of music tests for music courses. Academic courses will be evaluated as stated in 2, above.

(4) Applicants must submit College Board Scholastic Aptitude Test scores which meet the minimum established by the College for the curriculum concerned.

(5) The West Chester State College graduation requirements in effect at the time of admission will apply to transfer students unless they do not graduate within four years of enrollment. In such an instance, the Dean of Undergraduate Studies may make course substitutions which he deems acceptable for degree requirements.

(6) Applicants shall complete the approved procedure for applying for admission. (See *Admission of Transfer Students,* above.)

West Chester does not allow credit for courses taken through correspondence.

## ACCEPTANCE OF AN OFFER OF ADMISSION

Each applicant who accepts an offer of admission to the College must sign an acceptance form which includes the following statement: "I hereby submit myself to the jurisdiction of the College and agree to be governed by the rules and regulations of the College now existing or to be adopted during the period in which I am enrolled as a student."

## POLICY ON EARLY ADMISSIONS

Under the early-admissions policy, certain highly qualified students may enter West Chester as freshmen upon completing their junior year of secondary school. The policy is designed to let students with high academic achievement and unusually mature personal development undertake a college program when it is evident that they will benefit more from it than from the senior year in secondary school. In determining whether a student is ready for the college program and the college community without the senior year in secondary school, the College carefully evaluates a number of factors beyond the attainment of high grades. Students whose records, in the opinion of the guidance counselor, indicate that they might qualify for early admission are advised to write to the Director of Admissions for information. The closing date for application is June 1.

## AUDITING PRIVILEGES

See Academic Information.

# Expenses

*Expenses are Subject to Change*

## Fees

### BASIC FEE FOR PENNSYLVANIA STUDENTS

The basic fee* for full-time students who are legal residents of Pennsylvania is $225 per semester. For part-time students (those taking eleven or less semester hours) the basic fee is $18 per semester hour (minimum $54).

### BASIC FEE FOR OUT-OF-STATE STUDENTS

The basic fee* for all out-of-state students is $30 per semester hour. With a sixteen-credit-hour load, this amounts to $480 per semester. The minimum fee for out-of-state students on a part-time basis is $90.

Except for the basic fee, the expenses of out-of-state students are the same as those of Pennsylvania students.

### SPECIAL CURRICULUM FEES

In addition to the basic fee, students enrolled in the School of Music or the School of Health and Physical Education pay special curriculum fees as follows:
*School of Music*: $45 per semester (prorated for part-time students).
*School of Health and Physical Education*: $18 per semester (prorated for part-time students).

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* The basic fee covers registration, the keeping of student records, library services, student welfare, health service (other than special nursing or quarantine), and laboratory facilities.

## HOUSING FEE

The housing fee for students living in campus residence halls is $360 per semester, and covers room and meals while the College is in session. (Holiday and recess schedules may be noted on the College Calendar.) Resident students living in college extension houses pay room rent in advance, but directly to the private householder. The College charges these off-campus resident students $10 weekly for their meals in the College dining hall.

## FINANCIAL OBLIGATIONS

Students and their parents or guardians are asked to observe that all fees and costs are subject to change without notice, and that, since the acceptance of a student is for a semester, financial obligations are accordingly for a semester.

At his discretion, the President may authorize payments on a monthly basis for full-time students on scholarships, whose circumstances require a deferred payment schedule. Requests for a deferred–payment schedule should be sent to the Director of Business Affairs.

## ADVANCE PAYMENT OF HOUSING AND BASIC FEES

All students are required to pay their housing and basic fees in advance of each semester. The College sends bills for these fees preceding each semester. If payment is not made within the stipulated period, the student is dropped from the admissions list or the rolls of the College and loses all privileges and priorities, including his room reservation.

For the academic year 1970-1971, payments will fall due as follows:

| | |
|---|---|
| *Fall Semester*: | July 29, 1970 |
| *Spring Semester*: | December 15, 1970 |

Checks should be made payable to the "Commonwealth of Pennsylvania" and mailed to the Office of Business Affairs, West Chester State College, West Chester, Pa. 19380.

## APPLICATION FEE FOR NEW STUDENTS

An application fee of $10 is required of all applicants. It is not refundable under any circumstances and is not credited to a student's

account. The application fee must be paid by cashier's check or money order (not personal check or cash).

## ACCEPTANCE FEE FOR NEW STUDENTS

The student accepts an offer of admission by paying an additional $75 as a guarantee of his intention to enter the College in the semester indicated. This fee is not refundable, but upon enrollment it is credited toward the student's basic fee. The acceptance fee must be paid by cashier's check or money order.

## ADVANCE REGISTRATION FEE FOR RETURNING STUDENTS

Returning students affirm their intention to register for the immediate semester by their advance payment of semester fees (see above).

## DAMAGE FEE

Students are held responsible for damage, breakage, loss, or delayed return of college property and will be charged for any damage other than that occurring from normal use or deterioration. If a student damages College property while using an appliance not provided by the College, he may be charged a proportionate amount of the repair cost.

In the same manner, students living in approved College extension houses are held responsible for the payment of the damage fee to private householders.

## PRIVATE MUSIC INSTRUCTION FEES

Students enrolled in the School of Music pay no extra fees for required private instruction in voice, piano, or band or orchestral instruments, nor for the use of pianos for practice. Music majors are, however, charged for the following:

(1) Pipe organ for practice, one period each weekday, $36 per semester.
(2) Band or orchestral instruments, $6 rental per semester.

*Elementary Education Majors whose Area of Interest is Music*—charged a lesson fee of $45 per semester if they elect private instruction in

voice, piano, organ, or band or orchestral instruments. Pianos for practice are available at no charge. The rates for organ practice and use of band or orchestral instruments are those shown above for music majors.

*Students in one of the programs in the School of Arts and Letters*—charged at the same rates as elementary education majors (above).

*All Other Students*—charged a lesson fee of $24 each semester for one half-hour lesson per week, plus a $37.50 out-of-music curriculum fee per semester. A charge of $6 per semester is made for a daily practice period at the piano. The rates for organ practice and the use of band or orchestral instruments are those shown above for music majors.

## MISCELLANEOUS FEES

*Diploma Fee of $5.* Required of degree candidates.

*Record Transcript Fee of $1.* Charged to students for the second and all subsequent transcripts of records. The $1. fee applies also to those not currently enrolled. (A cashier's check or money order is required.)

*Late Payment Fee of $5.* Charged for overdue payments required during the semester.

*Late Registration Fee of $5.* Required of students completing registration after the official registration date, or requesting a change of a course or courses after the official registration date.

*Transient Lodging Fee of $1.58.* Charged for overnight guests.

*Additional Housing Fee of $2 per week.* Required when one person is permitted to occupy a double room. (This privilege is given only in summer sessions.)

*Auditing Fee.* Auditors are charged the part-time basic fee of $18 per semester hour if residents of Pennsylvania, or $30 per semester hour if out-of-state students. Minimum fees are $54 and $90 respectively. (See *Auditing Privileges* in Academic Information.)

## POLICIES ON REPAYMENTS AND REFUNDS

(1) Students who withdraw from the College after paying their semester fees will not be eligible for a refund of the room fee ($180) unless they give written notice by August 1 for the fall semester and by January 1 for the spring semester to: (a) the Office of Undergraduate Studies and (b) the Office of Business Affairs.

In any circumstance, students who withdraw after paying their semester fees are subject to a legal forfeit of $25.

(2) Resident students (including off-campus resident students) who decide to change their housing status to commuting students will likewise not be eligible for a refund of their room rent ($180) unless they give written notice by August 1 for the fall semester and by January 1 for the spring semester to: (a) the Dean of Women or Dean of Men and (b) the Office of Business Affairs.

(3) Repayments will not be made to students who are temporarily or indefinitely suspended, dismissed, or who voluntarily withdraw from the College.

(4) In cases of personal illness, certified by an attending physician, or for other reasons which may be approved by the Board of Trustees, the College will refund the proportion of the housing and other basic fees for the part of the semester which the student does not spend in the College. No refund will be made for an absence of less than two weeks. Application for a refund must be made in writing to the Office of Business Affairs.

(5) Repayments of the application fee or acceptance fee will not be made under any circumstance.

### DELINQUENT ACCOUNTS

No student will be enrolled, graduated, or given a transcript of his record until all charges due at the particular time are paid.

## ADDITIONAL COSTS

### COMPULSORY ACCIDENT INSURANCE

A policy costing approximately $10 per year is compulsory for all students in health and physical education and for those participating in various athletic programs.

### INTRACOLLEGIATE GOVERNMENTAL ASSOCIATION FEE

A student activities fee of $22 per semester is collected from all full-time students, and administered through a cooperative organization under regulations approved by the Board of Trustees. It covers the cost of the student

activities program in such areas as athletics, various musical organizations, lectures, entertainment, and student publications. The student activities fee should be paid promptly upon receipt of the bill. Checks should be drawn to "IGA" and mailed to the Intracollegiate Governmental Association.

Part-time students may secure the benefits of the activities program, at their initiative, by paying the $22 fee at the College Bookstore.

## BOOKS

Each student buys his own books and supplies. They are available at the college bookstore, at a cost of approximately $50 each semester.

## GYMNASIUM UNIFORMS

*Men students in the B.S. in Health and Physical Education degree program* are required to buy athletic and gym outfits costing approximately $35 for the first semester and $35 for the third semester.

*Women Students in the B.S. in Health and Physical Education degree program* must buy, for their first semester, uniforms costing approximately $60. Order forms are sent to each applicant upon her acceptance by the College. An additional expenditure of $15 is required of all sophomores.

*All other students* are required to purchase a regulation gym outfit. For the women students this includes a pair of blue shorts, a white shirt, a white sweat shirt, white socks, and canvas tennis shoes, costing altogether about $10. For men the outfit includes a pair of white shorts, a white T-shirt, white socks, and canvas gym shoes, at an approximate total cost of $10.

## IDENTIFICATION CARDS (I. D. CARDS)

On the day of registration a charge of $1 is assessed for student identification cards, used to admit students to College functions sponsored by the Intracollegiate Governmental Association, and to the College dining room. The cards carry the student's photograph and show his home address and IBM number. If lost, they may be replaced for $2.

## COUNCIL DUES

Every student is a member of Men's or Women's Government and as such is assessed Council Dues of $2 per year.

## CLASS DUES

Class dues constitute an obligation which every full-time student assumes upon admission, and must be paid at the time of registration. Each class determines its dues. For the 1969-1970 academic year they were: Freshman Class, $5; Sophomore Class, $12; Junior Class, $24; and Senior Class, $25.

## FRESHMAN SWIM-SUIT RENTAL

All freshmen pay a swim-suit rental fee of $2, covering use of a suit throughout their undergraduate years.

## Summary of Yearly Costs for Full-Time Pennsylvania Students

[Because they vary, class dues and the cost of required gymnasium uniforms are not included in these schedules. The student may consult Additional Costs, above.]

### All Curricula but Music and Health and Physical Education

| | |
|---|---|
| *a. Students Living on Campus* | |
| Basic Fee | $450 |
| Student Activities Fee | 44 |
| Books (approximately) | 100 |
| Room and Board | 720 |
| | $1,314 |
| *b. Day Students* | |
| Same as above, minus Room and Board | $594 |

### Health and Physical Education Curricula

| | |
|---|---|
| *a. Students Living on Campus* | |
| Basic Fee and Special Curriculum Fee | $486 |
| Student Activities Fee | 44 |
| Books (approximately) | 100 |
| Room and Board | 720 |
| | $1,350 |
| *b. Day Students* | |
| Same as above, minus Room and Board | $630 |

### Music Curricula

| | |
|---|---|
| *a. Students Living on Campus* | |
| Basic Fee and Special Curriculum Fee | $540 |
| Student Activities Fee | 44 |
| Books (approximately) | 100 |
| Room and Board | 720 |
| | $1,404 |
| *b. Day Students* | |
| Same as above, minus Room and Board | $684 |

### Summary of Yearly Costs For Part-Time Students (Pennsylvanians)

Pennsylvania part-time students may calculate a summary of costs by developing the basic fee from the charge of $18 per semester hour (minimum. $54). If enrolled in music or health and physical education, they

will need to include their special curriculum fee, explained at the beginning of this section.

### Summary Of Yearly Costs For Out-Of-State Students

Out-of-state students may calculate a summary of costs by developing the basic fee from the charge of $30 per semester hour (minimum $90). If enrolled in music or health and physical education, they will need to include their special curricula fee, explained at the beginning of this section.

## EXPENSES AND FEES SUMMER SESSIONS

Beginning with the summer of 1971, the College will hold two six-week Summer Sessions in place of the Pre, Regular, and Post Sessions of three, six, and three weeks' duration. For the undergraduate Summer Sessions of 1970, the following expenses and fees will be in effect:

*Board and room*: $20 a week.
*Activities fee (Regular Session)*: $3.50.
*Activities fee (Pre and Post Session)*: $1.75.
*Basic fee for legal residents of Pennsylvania*: $18 per semester hour of credit. (Minimum basic fee for the Regular Session: $54. Minimum basic fee for the Pre or Post Session: $27.)
*Basic fee for out-of-state students*: $30 per semester hour of credit. (Minimum basic fee for the Regular Session: $90. Minimum basic fee for the Pre or Post Session: $45.)

A special health-and-physical-education fee of $3 per summer course is applicable in courses—such as driver education—which utilize College equipment. Special music fees apply for students taking private instruction.

All summer-session fees are due and payable on the general registration dates. The following late fees are charged:

(1) A late pre-registration fee of $10 for failure to furnish the required pre-registration form within the pre-registration period, which ends two Fridays prior to any session.
(2) A change-of-course fee of $5 for a course change made after pre-registration.
(3) A late payment fee of $10.

*Note*: Expenses and fees for the two six-week sessions in 1971 will be those given above for the 1970 Regular Session. (Fees published in advance are always subject to change.)

# Financial Aid

The College's comprehensive program of scholarships, grants, loans, and student employment enables many students with limited funds to meet their college expenses. Upon admission, students routinely receive information and forms enabling them to apply for aid if needed. Those requiring further assistance or advice may write to or confer with the Director of Financial Aid to Students, who administers the program.

*College Scholarship Service.* West Chester, as a participant in the College Scholarship Service (CSS) of the College Entrance Examination Board, subscribes to the Service's principle that the amount of financial aid should be based on the degree of financial need. All students seeking financial aid must submit a Parents' Confidential Statement (PCS) by May 1 to the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540. The necessary form may be obtained from a secondary school, the Director of Financial Aid, or the College Scholarship Service.

Unless other specifications are indicated, requests for the scholarships, loans, and employment opportunities described here are made to the Director of Financial Aid.

## SCHOLARSHIPS

ALPHA SIGMA PHI SCHOLARSHIP. An annual $100 award given by the Alphite Society to a woman student on the basis of citizenship, scholarship, and need.

BETHLEHEM ALUMNI CLUB SCHOLARSHIP. $200 given annually to a Bethlehem High School or Bethlehem Catholic High School senior entering the College the next year.

JAMES B. BONDER MEMORIAL SCHOLARSHIP. An annual award to a deserving football squad member by Mrs. James B. Bonder, alumni, and friends, in memory of Dr. Bonder, former football coach and faculty member, who died in 1965.

Laury Samuel Brokenshire Scholarship. This $100 scholarship is presented annually as a memorial to Laury Brokenshire, a member of the class of 1959, by his parents, Mr. and Mrs. James R. Brokenshire, of Reading. It is awarded to an outstanding Junior Class music student selected by the School of Music faculty.

Delaware County Federation of Junior Women's Clubs Scholarship. A yearly award of about $100, given to at least one Junior Class woman residing in Delaware County.

Dr. Robert E. Drayer Memorial Award. An annual award for the senior who graduates with the most distinguished record in history, in memory of Dr. Robert E. Drayer, Assistant Professor of History, who died in 1968. The Department of History selects the recipient.

Friars Memorial Scholarship. This $100 annual scholarship honors West Chester students who died in World War II. The recipient is a man in the Junior Class.

Arthur E. Jones Memorial Scholarship. Talent in the vocal-choral area and scholarship are among considerations for an annual award to a music student in remembrance of Dr. Arthur E. Jones, former Chairman of Choral Music. To be eligible, a student must be a junior who has completed a course in choral conducting. The Department of Vocal and Choral Music selects the recipient.

Walker Hamilton, Jr. Memorial Scholarship. As a memorial to Walker Hamilton, Jr., an Associate Professor of English who died in 1968, the Department of English annually makes an award to an academically superior English major. The recipient must have completed three years at West Chester.

School of Health and Physical Education Scholarship. Income from the Quadrennial Show endows $100 annual scholarships (generally three) awarded to outstanding second-semester sophomores in health and physical education.

Kift-Mullen Memorial Scholarship for Future Teachers. $200 given annually to a junior or senior who is a graduate of Allentown High School or Allentown Central Catholic High School. The Robert L. Kift-Thomas R. Mullen, Jr. Memorial Fund, maintained by Lehigh Structural Steel Company, Allentown, is the donor.

Martin Luther King, Jr. Memorial Award. An annual award given to one or more Afro-American students by the West Chester campus chapter of the N.A.A.C.P. in honor of the late Dr. Martin Luther King, Jr. Applicants are reviewed by the campus chapter of N.A.A.C.P.

Samuel Martin Scholarship. Available to students of limited means who are preparing to teach. Children of Friends or students in sympathy with Friends are preferred. Applications are made to Elbert N. Pusey, Esquire, 30 West Market Street, West Chester.

Sarah H. Mellor Scholarship Fund of the Chester County Council of Parent-Teacher Associations. A $100 award, made yearly to one or more graduates from selected Chester County high schools in memory of a former West Chester student, teacher, and Trustee.

MUSIC SOPHOMORE SCHOLARSHIP. Three $100 scholarships, given annually to School of Music sophomores. College citizenship and musical performance are criteria.

WILLIAM PYLE PHILIPS SCHOLARSHIPS. Awarded annually to at least twenty juniors and seniors who are natives of Chester County. The scholarships recognize high scholastic ability and citizenship, and cover the students' yearly basic fees. If recipients are music or health and physical education majors, the special curriculum fee is also covered.

THEODORE PRESSER FOUNDATION SCHOLARSHIP. Two $200 scholarships, made available by the Presser Foundation's Board of Trustees, are awarded each year to juniors or seniors in music education. The School of Music faculty makes the selections.

HANNAH KENT SCHOFF MEMORIAL SCHOLARSHIP. Two scholarships of $150 yearly or $600 for four years are available from the Pennsylvania Congress of Parents and Teachers for students entering teacher education at any of the 13 Pennsylvania State Colleges or Indiana University of Pennsylvania. High school seniors become candidates upon recommendation of their guidance counselors. Application forms, available from guidance counselors, must be filed with the selected institution before March 1.

SCHUYLKILL COUNTY ALUMNI CLUB AWARD. An annual award based on need, ability, and promise, given to a West Chester student residing in Schuylkill County.

DAVID M. SENSENIG MEMORIAL SCHOLARSHIP. $50 savings bonds given annually to two juniors with outstanding ability in mathematics. Dr. Sensenig was chairman of the Department of Mathematics from 1895 to 1908.

SICO SCHOLARSHIPS. $300 scholarships, in limited number, provided by the SICO Company of Pennsylvania to students from specified localities entering West Chester in the field of elementary education. Competitive examinations for the scholarships take place at West Chester each March. Applications from high school seniors must be filed before March 1 through their guidance counselors. The stipulated areas of legal residence are: Chester, Adams, Berks, Cumberland, Dauphin, Delaware, Lancaster, Lebanon, and York Counties; Kent, New Castle, and Sussex Counties in Delaware; and Cecil County, Maryland.

DR. CHARLES S. SWOPE MEMORIAL SCHOLARSHIP TRUST. A scholarship trust established by the Swope family in memory of Dr. Charles S. Swope, who served as President of West Chester State College for a quarter of a century. Three $600 scholarships are awarded each year to outstanding students in one of the College's teacher–education programs. The Trustees Scholarship Committee determines the recipients upon the basis of academic achievement, character, dedication to the teaching profession, and participation in extracurricular activities. Applications may be obtained from the Office of the President or the Dean of Undergraduate Studies.

VALKYRIE CLUB SCHOLARSHIP. The Club, composed of women majors in health and physical education, awards an annual $100 scholarship to one of its Junior Class members.

York County Alumni Award. A yearly award, in memory of Elsie Oleita Bull, for a York County resident entering or attending West Chester. Need, ability, and achievement are the criteria. The amount varies.

Pennsylvania Department of Education Scholarships. The Pennsylvania Department of Education offers a scholarship of $200 per year for four years to the high school senior earning the highest score in competitive examinations given in each county of the Commonwealth. The scholarships may be used at West Chester. See guidance counselors for instructions about the examinations.

Pennsylvania State Scholarships. The Scholarship Program of the Commonwealth of Pennsylvania, created by the 1965 General Assembly, aids qualified Pennsylvania students who need financial assistance in order to attain a higher education. The scholarships are based upon the student's academic potential as shown on the Scholastic Aptitude Test of the College Entrance Examination Board, upon admission to an institution of higher learning, and upon need for financial assistance, as determined by the Pennsylvania Higher Education Assistance Agency. A Parents' Confidential Statement (see beginning of this section) must be filed in the offices of the Director of Financial Aid by each recipient.

## Counseling Services for Seniors Seeking Graduate Assistantships or Fellowships

Seniors planning to pursue graduate study at other colleges or universities may obtain information about scholarships, fellowships, or assistantships from the Director of Guidance and Counseling or the library. Conferences with department chairmen or faculty advisers are recommended.

## LOANS

National Defense Student Loan Fund. This Government Loan Program, established under the National Defense Education Act of 1958, provides for the establishment of higher education loan funds at institutions of higher education. Through the institutions, long-term, low-interest loans may be made available to qualified students in the institutions who are in need of financial assistance in order to pursue a course of study. The Program includes loan–cancellation provisions designed to attract superior students to the teaching profession at all academic levels. Further information may be secured from the Director of Financial Aid.

Pennsylvania Higher Education Loan Plan. This student loan plan was created by the Act of August 7, 1963, P.L. 549. Its purpose is to improve educational opportunities for residents of Pennsylvania who are attending approved institutions

of higher learning in the State or elsewhere in the United States. To be eligible, students must be legal residents of Pennsylvania and admitted to or enrolled in an approved institution of higher education in the United States.

Application forms may be obtained from participating banks in the students' communities or from the Pennsylvania Higher Education Assistance Agency, Harrisburg, 17102.

West Chester State College Student Emergency Loan Fund. Students doing satisfactory academic work and needing funds to continue in the College may obtain short-term loans up to $100 from this fund, which consolidates funds once maintained by the former Student Activities Association and the B'nai B'rith Lodge. The loans must be repaid before graduation or prior to registration for the next academic year.

General Student Alumni Loan Fund. The West Chester State College Alumni Association maintains a loan fund from which students in financial need may borrow up to $100. No interest is charged, although legal security is required. Applicants must have a satisfactory academic record. The loans must be used for college expenses and be repaid before graduation or prior to registration for the next academic year.

Viola Marple Scholarship Loan Fund. The will of Miss Viola Marple, a former teacher in the Department of English, provides scholarship loans for the education of two deserving women students whose records of ability, scholarship, and character promise competence for teaching. Recipients of the interest-free and renewable loans are selected by the English faculty and the President. Application forms may be secured from the Chairman of the Department of English.

## STUDENT EMPLOYMENT

Many opportunities to work on campus or in the community are available through the Director of Financial Aid. Students seeking this type of assistance are required to submit the Parents' Confidential Statement described at the beginning of this section.

Student Assistants. A limited number of students are employed as helpers in laboratories, offices, and in the library. Usually, some skill or training is required. The positions are primarily available to those who could not otherwise attend college. The earnings must be used exclusively for college expenses.

Student Waiters. Students are employed on an hourly basis in the dining hall. These positions, too, are primarily available to those who could not otherwise attend college. The earnings must be used exclusively for college expenses.

Part-time Employment. Students may seek part-time work or odd jobs by registering with the Director of Financial Aid. Although every effort is made to provide employment, students should not anticipate it as a certainty.

# Student Living

## ADMINISTRATIVE CLASSIFICATION OF STUDENTS

Although the majority of West Chester's undergraduates live on the campus, many commute to the College. For administrative purposes, the College classifies its students as:

(1) RESIDENT STUDENTS

a. R1 or College Residence Hall Students

These students live in residence halls owned and operated by the College and are required to take meals in the dining hall.

b. R2 or Campus Extension Resident Students and Fraternities and Sororities

Though not owned by the College, the houses are operated and supervised in substantially the same way as the residence halls. Those students living in houses not having dining facilities are required to take their meals in the dining hall.

(2) INDEPENDENT HOUSING STUDENTS OR OFF-CAMPUS STUDENTS

These students live away from parents' homes but not in a house supervised by the College or subject to College rules and regulations.

(3) DAY OR COMMUTING STUDENTS

This classification includes students who commute to and from the College from their legal residence.

The Dean of Men and the Dean of Women assign the classification of each student and make room assignments for all resident students. All freshman resident students are assigned housing in a College residence hall, unless other housing is requested. All matters pertaining to student living conditions are under the jurisdiction of the Dean of Men and the Dean of Women. Campus extension students are under the same regulations as residence hall students.

*Married Students.* The College has no housing facilities for married students. Prior to registration, they will need to secure their own accommodations. Area realtors and newspapers should be consulted.

## DISMISSAL FROM COLLEGE

Students are expected to conform to the rules and regulations of the College. Students found in violation of these rules and regulations may be suspended or dismissed, but only upon the approval of the President. In instances of violations, administrative officers, faculty members, and student committees and councils may make recommendations to the President for suspension or dismissal.

## VEHICLE REGULATIONS

All students may operate motor vehicles at the College. Students who intend to park motor vehicles on official student parking lots must register their vehicles with the Security Police and obtain an authenticated decal, under College motor vehicle regulations. Although registration is not mandatory for students unless they use the official parking lots, it is nevertheless recommended for all students with motor vehicles.

## FRESHMAN ORIENTATION PROGRAM

The Freshman Orientation Program is an important part of entrance into West Chester. Mandatory for all incoming freshmen, the three-day program is administered by the Guidance and Counseling Center and includes placement testing, counseling, discussion groups, and academic advisement. The program also acquaints incoming students with facilities and services. During their orientation students are housed in residence halls, have their meals in the dining hall, and take part in a variety of recreational and social activities. Within the limits of early response and availability of space, freshmen may schedule their orientation for the most convenient of

a number of orientation periods. At an appropriate time, admitted freshmen receive advance notice of the program. If they have further questions, they may communicate by mail or telephone with the Guidance and Counseling Center.

## HOUSING

West Chester's residence halls provide accommodations for more than 2,000 women and 700 men.

Student rooms have basic furnishings for comfortable living, and the students may make them more homelike with their own accessory additions. During Freshman Orientation, students will be informed by the Dean of Women or Dean of Men about the services and equipment furnished by the College and those necessities which the student must supply for himself.

Lounge and recreation areas, storage rooms, television, and a variety of other facilities add convenience and a pleasant setting for student life.

Campus extension houses also provide basic furnishings and many homelike facilities and conveniences.

*Overnight Guests.* If accommodations are available, a resident student may have an overnight guest on Fridays or Saturdays, at a charge of $1.58 per night. Prior approval and registration must be secured from the Dean of Men (for men students) and the Dean of Women (for women students).

## DINING ACCOMMODATIONS

Spacious dining accommodations are provided in Lawrence Center, where all resident students take their meals. Three meals are served, cafeteria style, every day of the week. Menus are carefully planned to meet the nutritional needs of active students.

The dining-hall staff is not equipped to meet the special needs of students whose health requires medically regulated diets. These students may obtain permission to take their meals elsewhere by applying to the Dean of Student Affairs at least two weeks in advance of each semester.

## COLLEGE BOOKSTORE

In addition to required textbooks, the College Bookstore carries paperback books, stationery, other student supplies, records, gymnasium uni-

forms, college blazers, and various gifts and souvenir items. The store, located on the ground floor of Recitation Hall, is a student enterprise whose profits benefit the Intracollegiate Governmental Association.

## CAMPUS POST OFFICE

The College has an on-campus post office, located on the second floor of Lawrence Center. Commuting students receive their mail here, through combination-lock mailboxes. Residence hall students receive their mail at their halls. To insure prompt delivery, mail sent to residence hall students should show the student's name, room number, the name of the residence hall, and West Chester State College, West Chester, Pa. 19380.

## LOUNGE FACILITIES

In addition to the social lounges in residence halls, a large and attractively furnished lounge in Lawrence Center serves both commuting and resident students. Here they may entertain guests, gather informally for relaxation, or enjoy music. A snack bar, near the lounge, is another popular gathering place for leisure moments.

## COLLEGE HEALTH SERVICE

To meet emergency and first-aid needs, and to perform routine infirmary treatment of minor illnesses and minor surgical conditions, two part-time physicians and four registered nurses are available, at no cost to the

students. A four-bed ward is available for short-term observation or treatment at the discretion of the College physicians. The Health Service is in Reynolds Hall where, for emergencies, a nurse is on duty on a 24-hour basis while College is in session. Beyond these services, the College does not furnish medical care nor bear the costs of medical or surgical treatment or hospitalization. The community of West Chester has qualified physicians and excellent hospital facilities.

A group medical and accident policy, approved by the College and covering accidents and illness on a twelve-month basis, is available at registration, or from the College Health Service, at a minimal annual premium. Students and parents are urged to consider the excellent protection it offers.

## SPEECH AND HEARING CLINIC

Students who need help in meeting minimal speech standards may obtain it at the Speech and Hearing Clinic which West Chester maintains. Along with serving as a speech improvement center for students, the Clinic provides evaluation and therapy in speech and hearing for children and adults from the community of West Chester and the surrounding area.

## GUIDANCE AND COUNSELING CENTER

The professional services of the Guidance and Counseling Center are available to students who need help with problems affecting their academic proficiency, or who have difficulties in adjusting to college life. The staff is trained and experienced in the administration of psychological tests, counseling, and personality evaluation. The program offered includes orientation for entering students.

The student who is coping with emotional difficulties, tensions, or problems of a personal nature should seek assistance at the Center. It is on the first floor of Old Main.

## PLACEMENT SERVICES

The College maintains an active Placement Service for its students and graduates. The Director of Placement is in general charge, and is assisted by the Undergraduate Office, the Graduate Office, the Offices of

the Schools, and by student teaching supervisors and other members of the faculty.

The purpose of the Service is to help graduating seniors and graduates obtain desirable positions related to their interests and education. It renders assistance to School officials who are seeking qualified teachers to fill vacancies in the schools of the Commonwealth. For the benefit of arts and sciences graduates, communication is maintained with government agencies, business, and industry.

Counseling is offered to all students and graduates in career planning, opportunities, and employment trends. A placement library provides information about career opportunities, area schools, job-training programs, Civil Service careers, job requirements, and application forms and procedures. At periodic intervals, group orientations for senior students are conducted. Although most career placement counseling takes place in the senior and graduate years, all undergraduates with inquiries about careers are invited to use the Placement Service library and to seek guidance from the Placement Service staff.

Meetings between applicants and potential employers are arranged, and private facilities on campus are made available for interviews and conferences. Appropriate follow-up research is conducted periodically with graduates and their employers.

## SELECTIVE SERVICE INFORMATION

The Dean of Undergraduate Studies is the adviser on Selective Service. Students wishing counsel on this subject should apply at his office.

At the beginning of each college year, a student seeking deferment must complete an *SS109* Form which will be submitted to his Selective Service Board by the Dean of Undergraduate Studies. The forms are mailed to men students with their registration forms.

# The Student Community

## STUDENT GOVERNMENT

Quite understandably, students begin their undergraduate years with a sense of excitement. In a swift transformation, they are plunged into two large adventures: the pursuit of study that will shape the course of their lives, and a sudden move into a new kind of community, composed mainly of youth, focused largely toward the future, and bounded by time as well as the margins of the campus.

It is a conviction at West Chester that the two adventures are closely interwoven, that education is both an academic and a social process, going on in every moment of the student's day. The student community is viewed, not as the housing adjunct of the College, but as an intrinsic element of the West Chester experience.

The Administration holds that students should share responsibly in governing this community and should have a voice in the shaping and re-examination of the objectives of the College.

West Chester students have their own democratically constructed governmental organization for maintaining a mature and responsible student citizenry, and for developing the various activities and programs which best serve their interests and needs. Through advisory and committee machinery, the Administration, the faculty, and the student body seek to work democratically together in behalf of the general concerns of the College.

## THE INTRACOLLEGIATE GOVERNMENTAL ASSOCIATION

Student government at West Chester is contained in the Intracollegiate Governmental Association, an organization to which all students, after payment of the activities fee, belong. Functioning within a constitutional framework, the IGA provides students with experience in the processes of democratic government.

The General Assembly, chosen by election, is the IGA's legislative body; the IGA program is administered through its officers and a student committee system. In fiscal matters, in various policy-making areas, and in disciplinary action, final authority rests with the President of the College and the Board of Trustees.

The General Assembly is composed of representatives from the Freshman, Sophomore, Junior, and Senior Classes, the Women's and Men's Resident Governments, the Women's and Men's Commuter Student Governments, and representatives-at-large.

The large concern of the IGA is the welfare of the student body. Under the guidance of the Director of IGA and faculty advisers, the IGA maintains the College Bookstore, publishes West Chester's student newspaper and handbook, operates the College radio station, conducts ticket sales for College events, and plans and executes many all-campus special events and programs.

## COUNCILS AND CLASS ORGANIZATIONS

Other matters of student government rest with the Freshman, Sophomore, Junior, and Senior Classes, who elect their officers, and with the Women's and Men's Resident Governments and Women's and Men's Commuter Governments, which are also democratically constructed.

## THE EXTRACURRICULAR PROGRAM

The College views its extracurricular program as an important supplement to the student's academic experience, and looks upon the various available activities as a virtual laboratory in which the undergraduate puts into practice knowledge and skills generated in the classroom. The College also believes that its extracurricular activities offer the student experiences which will stand him in good stead in his later professional, business, or community life.

The Dean of Student Affairs has overall responsibility for West Chester's extracurricular program,and assures that it meets the needs of students and that its various phases fit into the whole of college living. The Dean works closely with the officers and committees of IGA and the four Classes and—through the Director of Social Activities—with the leadership of the College's many clubs and organizations.

Together, the Dean and the Director encourage students to take part in extracurricular affairs. Some of the available activities are described in this section. The new student becomes fully acquainted with others through his student handbook. In summary, these include:

PROFESSIONAL ORGANIZATIONS. The various Schools and departments of the College sponsor clubs and activities devoted to professional development. Among these are such groups as the Association of Childhood Education; English, French, Geography, Mathematics, Music, Philosophy, Social Sciences, and Science clubs; and activities for health and physical education students.

CLUBS CENTERED AROUND INTERESTS. Photography, nature study, bowling, bridge, horseback riding, art, music, and other special interests draw students together in various clubs or groups.

ACTIVITIES CENTERED AROUND GROUP LIFE. These include the many committees and special projects arising within the student-government bodies, and range from membership on a committee planning a social or public-affairs event to working on the College yearbook or newspaper.

Organizations which meet the religious needs of students are listed below, under *Religious Organizations.* West Chester students are always made welcome at the many places of worship in and near the Borough of West Chester.

## SPECIAL EVENTS

A notably vigorous interest in the arts and thought of the times exists at West Chester and throughout the larger community (the Borough of West Chester and the surrounding sector of Chester County) in which the College is located.

In some part, this unusual devotion to letters and the performing arts has roots in the past of Chester County, which has had a remarkable number of scholars, scientists, writers, and artists over the past two centuries.

With Philadelphia's rich cultural resources in easy reach and with stimulus from the singular number of other colleges in the Philadelphia orbit, attention to the arts is keen in southeastern Pennsylvania, to the benefit of West Chester students.

All of West Chester's cultural events are coordinated in the offices of the Director of Cultural Affairs.

Throughout the academic year, students have many opportunities to deepen their interest in music by attending concerts and recitals provided by the faculty and students of the School of Music. At several annual series of programs, students and townspeople fill the large auditorium of Philips Memorial Hall.

Notably, the All-Star Series brings to the campus some of the world's distinguished artists in the fields of music, drama, and dance. Among these have been the Detroit, Washington National, Cincinnati, and Minneapolis Symphony Orchestras, the Robert Shaw and Roger Wagner Chorales, Isaac Stern, George London, Jerome Hines, Nicolai Gedda, Phyllis Curtin, Evelyn Lear, the National Ballet, the American Ballet Theatre, Jose Greco and Company, the Goldovsky Grand Opera Theater, and the APA Repertory Company.

The Chamber Music Series brings to the College outstanding small ensembles. In recent years programs have featured the Philadelphia Brass Ensemble, Curtis String Quartet, de Pasquale String Quartet, and the Mozarteum Woodwind Quartet.

Through the William Pyle Philips Lecture Foundation, students have opportunities to attend lecture programs bringing leaders in literature, science, and world affairs to the campus. Among these have been Madame V. L. Pandit, Arnold Toynbee, Winston Churchill II, Harrison Salisbury, Carl Rowan, Mark Van Doren, Sir Julian Huxley, Robert Frost, Dame Judith Anderson, General Carlos P. Romulo, Agnes de Mille, the Hon. Robert C. Weaver, and Carey McWilliams.

The Assembly Series has brought to the campus talent such as Viveca Linfors and the Afro-Haitian Dance Company; the College Union Cultural Events Committee has recently presented David Susskind, Daniel Watts, and Michael Harrington, among others.

Under the aegis of the Campus Cinema Club, a monthly motion-picture series shows foreign films and classics from film libraries.

Other programs, sponsored by various clubs or organizations, bring to the campus speakers of regional or national importance in such areas as public affairs, the sciences, literature and the arts, and popular entertainers.

## MUSICAL ORGANIZATIONS

In conjunction with the regularly scheduled student and faculty recitals, the College Administration maintains the following well-developed musical organizations which contribute to the wealth of fine music on the campus:

1. TWO COLLEGE BANDS: THE CONCERT AND MARCHING BAND AND THE SECOND CONCERT BAND. Membership in these organizations is determined by the student's qualifications regardless of curriculum.

2. WIND ENSEMBLE. A band of 50 to 60 members selected by audition. The Ensemble performs difficult music, with emphasis on contemporary works.

3. SYMPHONY ORCHESTRA. Membership in this organization is determined by the student's qualifications regardless of curriculum.

4. SINFONIETTA (LITTLE SYMPHONY ORCHESTRA). The Sinfonietta is a group of approximately 25 selected players from the Symphony Orchestra. It specializes in music written for small orchestras.

5. INSTRUMENTAL ENSEMBLES AND CHAMBER MUSIC GROUPS. Membership in these groups is determined by the student's qualifications.

6. THE CRITERIONS. The College jazz lab band, whose members are selected by audition.

7. CONCERT CHOIR. A mixed choir of music students selected by audition. This choir of about forty voices meets twice a week, devoting its efforts toward acquiring a fine technique of choral singing through the preparation of an extensive repertoire for performance.

8. CHOIR. A mixed choir of junior and senior music students. This group meets twice a week, devoting its efforts toward a wide association with choral literature. It is used as an opera chorus in School of Music productions and joins with the Concert Choir for large combined performances.

9. WOMEN'S CHORUS. All freshman and sophomore women not in the Concert Choir who are enrolled in the music education curriculum are required to take this course, devoting their efforts primarily toward acquiring the techniques of choral singing.

10. MEN'S CHORUS. All freshman and sophomore men in music education who are not enrolled in the Concert Choir are required to take this course. Men from all other curricula are invited to audition for this group.

11. MIXED CHORUS. A mixed chorus of freshman and sophomore music education students. This group meets once a week, alternating as a mixed chorus and as Men's Chorus and Women's Chorus. It combines with the Concert Choir for performances.

12. MADRIGAL CHOIR. An elective course in chamber-type choral music. Membership is by audition.

13. OPERA CHORUS. An elective course devoted to the training of a choral group which participates in opera or operetta productions. Membership is by audition.

14. WOMEN'S GLEE CLUB. This organization provides an opportunity for non-music women students to participate in a choral group. The activities include the annual Christmas Carol Program and the Women's Glee Club spring concert. Membership is by individual audition.

## WEST CHESTER ATHLETIC PROGRAM

All West Chester students have opportunities to participate in the broad athletic program maintained by the College. Both the intramural and intercollegiate phases of the athletic program are described under School of Health and Physical Education.

# OTHER EXTRACURRICULAR ORGANIZATIONS AND ACTIVITIES

## LITTLE THEATRE

This student organization, functioning in Theatre 208, provides a workshop for those who wish training in educational, technical, and performing theatre. It presents a variety of major plays for the College as well as the surrounding community. Little Theatre established the West Chester chapter of Alphi Psi Omega, national honorary dramatic fraternity.

## FORENSICS

West Chester offers a rich extracurricular program in forensics—both intramural and intercollegiate. The Debate Society is a focal point for training and participation in intercollegiate competitive activity in debate, oratory, extemporaneous speaking, parliamentary discussion, and interpretative reading. The Debate Society also sponsors forensic tournaments for nearby high school students.

## PUBLICATIONS

QUAD ANGLES. This student newspaper is published by an undergraduate staff, with a faculty member serving as adviser. Positions on *Quad Angles* are open to any member of the student body with reportorial or editorial ability. Students who join the staff gain training and experience in journalism.

THE SERPENTINE. Publication of this College yearbook is a responsibility of the Senior Class. The yearbook, which records college activities, is edited by a student staff with two advisers.

THE LITERARY QUAD. An annual publication containing creative writing, both poetry and prose, selected from the literary output of West Chester students.

THE HANDBOOK. This annual publication provides incoming freshmen with pertinent information concerning student life at West Chester.

## STATION WCSC

Radio Station WCSC is on the air in the afternoons and evenings and brings national and local news as well as music to the campus. Students who take part in the project gain a working experience in programming and announcing.

## RELIGIOUS ORGANIZATIONS

Opportunities for fellowship and religious experience are offered at West Chester by the following groups:

Inter-Varsity Christian Fellowship
Hillel Foundation
Newman Club
Student Christian Association
Christian Science Association
Baha'i Club
Lutheran Students Association

## SERVICE ORGANIZATIONS

ALPHA PHI OMEGA. A national men's service organization concerned with developing leadership and furthering the American heritage of freedom. Membership in Omicron Upsilon chapter is open to all West Chester men who have completed their first semester and have a background in scouting.

CAMPUS GIRL SCOUTS. Established at West Chester in the spring of 1969, this group is affiliated with the Girl Scout movement and dedicated to service, fellowship, and leadership.

THE FRIARS SOCIETY. Composed of sophomore, junior, and senior men, invited into the organization in recognition of character and leadership. The Society's various service projects concern the good of the College community.

## HONOR SOCIETIES

ALPHA PSI OMEGA. Rho Mu, the West Chester chapter of this coeducational dramatic fraternity, was established in 1961. It is responsible for one major production presented each year in cooperation with the Little Theatre.

GAMMA THETA UPSILON. Gamma Eta chapter of this professional geography fraternity was established at West Chester in 1963. The organization promotes professional interest in geography.

KAPPA DELTA PI. The School of Education sponsors this fraternity to encourage high professional standards in education. Membership is awarded by invitation to education majors with high academic standing.

MATHEMATICS HONOR SOCIETY. Organized in 1962, this society is open to students with 18 semester credits in mathematics with a minimum average of 3.0.

PI GAMMA MU. The School of Social and Behavioral Sciences sponsors Omega chapter of Pi Gamma Mu for the purpose of improving scholarship in the social sciences and to inspire social service to mankind. Majors in the School with high academic accomplishments are invited into membership in their junior and senior years.

PI KAPPA DELTA. A chapter of this national honor society for students engaged in competitive forensic activities was established at West Chester in 1969. With its base in the Debate Society, the local chapter of Pi Kappa Delta offers West Chester students opportunity to affiliate with students interested in forensics in some 250 other chapters. The School of Arts and Letters sponsors the West Chester chapter.

SIGMA ALPHA IOTA. Epsilon Epsilon chapter of this internationally incorporated professional fraternity for women in music was formed in 1968. The fraternity is dedicated to service in the field of music. Membership, by invitation, recognizes scholarship. Members must be in at least their second semester.

PHI ALPHA THETA. Organized in 1968, Nu Sigma chapter of this international honor society in history is sponsored by the Department of History. Phi Alpha Theta is open to history majors in teacher education and liberal arts who have a minimum average of 3.01 in twelve or more semester credits in history.

PHI EPSILON KAPPA. The School of Health and Physical Education sponsors a chapter of this national professional fraternity for men majoring in health and physical education. Phi Epsilon Kappa seeks to advance the profession of health and physical education throughout the nation.

PHI MU ALPHA (SINFONIA FRATERNITY). Rho Sigma chapter of this professional fraternity for men majoring in music was formed at West Chester in 1967. The organization seeks to advance the cause of music in America and to further the welfare and brotherhood of students in music. Membership is by invitation. Members must be in at least their second semester.

PSI CHI. A chapter of this national honor society in psychology is sponsored by the Department of Psychology. Membership is by invitation, with scholarship and citizenship as criteria. Psi Chi, which is under the aegis of the American Psychological Association, endeavors to advance the service of psychology and encourages superior scholarship in psychology.

## SOCIAL FRATERNITIES AND SORORITIES

The College has a system of social fraternities and sororities, governed respectively by the Interfraternity Council and the Intersorority Council. The system, which came into being during 1967-1968, has rapidly taken its place as an integral part of campus life at West Chester.

| FRATERNITIES | SORORITIES |
|---|---|
| Lambda Chi Alpha | Alpha Sigma Alpha |
| Sigma Tau Gamma | Alpha Sigma Phi |
| Tau Kappa Epsilon | Alpha Sigma Tau |
| Theta Chi | Alpha Phi Sigma |
| Phi Epsilon Pi | Delta Zeta |
| Pi Lambda Phi | Delta Phi Iota |
| | Delta Psi Omega |
| | Kappa Theta |
| | Lambda Delta Chi |
| | Sigma Delta Tau |
| | Sigma Chi Omega |

## SOCIAL EVENTS

A number of traditional social events highlight the student calendar throughout the year. Students look forward to the excitement and color of Rampage Weekend (homecoming), and to such pleasant affairs as the Christmas White Supper and Dance, Greek Weekend, Parents' Day, Spring Weekend, Senior Weekend, and the various class formals.

# Academic Information

The academic program at West Chester is developed under a committee process which reaches deeply through the faculty. Curricula, policies, and regulations are determined by the Undergraduate Council with the approval of the Administration and, where necessary, the Board of Trustees. Among the various bodies which make recommendations concerning academic matters to the Undergraduate Council are the several Schools, the Teacher Education Council, and committees such as those on Academic Standards, Curriculum Development, and Admissions.

Under West Chester's advisory program, every student has a faculty adviser who counsels him on academic matters throughout his undergraduate years. The student-adviser assignments are established early in the student's freshman year. Advisers maintain close relations with the staff of the Guidance and Counseling Center.

## CLASSIFICATION BY COLLEGE PROGRAM

Students are classified by programs, as follows:

*Regular Student*—all undergraduates admitted to a regular degree program.

*Special Student*—students pursuing one of the following types of programs which will comprise twelve or more semester hours of credit upon completion:

a. Cooperative degree program for public school nurses;
b. Cooperative degree program for dental hygienists;
c. Certification program for college graduates seeking teaching certificates.

*Unclassified*—all other students in a non-degree program.

## ACADEMIC CLASSIFICATION OF STUDENTS

The student's class designation is determined by the number of semester hours of credit earned, thus:

| | |
|---|---|
| *Freshman* | 31 semester hours or less of credit |
| *Sophomore* | 32–63 s.h. of credit (inclusive) |
| *Junior* | 64–95 s.h. of credit (inclusive) |
| *Senior* | 96 or more s.h. of credit |

## GRADING SYSTEM

The College employs the following grading system:

| *Grade* | *Interpretation* | *Percentage Equivalents* | *Quality Points* |
|---|---|---|---|
| A | Excellent | A = 90 - 100 | 4 |
| B | Superior | B = 80 - 89 | 3 |
| C | Average | C = 70 - 79 | 2 |
| D | Below Average | D = 60 - 69 | 1 |
| F | Failure | F = 59 or lower | 0 |
| I | Incomplete | | |
| WF | Withdrew Failing | F = 59 or lower | 0 |
| WP | Withdrew Passing | | |
| Aud | Audit | | |

An I (Incomplete) is given when there are valid reasons (such as serious illness or death in the family) for a student's failure to complete course requirements by the end of a semester. Unless the work is satisfactorily completed within the first nine weeks of the next semester, the I becomes an F.

## CUMULATIVE INDEX

The cumulative scholastic index (academic average) is determined by dividing the total quality points by the total credit hours attempted. The following example, based on a first semester of study, shows how the index accumulates:

| | *Semester Hours* | *Grade* | *Quality Points for Grade* | | *Quality Points for Course* |
|---|---|---|---|---|---|
| 1st subject | 4 | A | 4 | 4 x 4 = | 16 |
| 2nd subject | 3 | B | 3 | 3 x 3 = | 9 |
| 3rd subject | 3 | C | 2 | 2 x 3 = | 6 |
| 4th subject | 3 | D | 1 | 1 x 3 = | 3 |
| 5th subject | 2 | F | 0 | 0 x 2 = | 0 |
| | 15 | | | | 34 |

34 ÷ 15 = Scholastic Index 2.27

All grades received during a student's enrollment are included in the cumulative index. Grades from other colleges are excluded.

## MAINTENANCE OF MINIMUM STANDARDS

All students should strive to maintain the best possible cumulative index. A 2.00 (C) index is the minimum standard which can be considered acceptable academic work. Students failing to maintain a 2.00 index are automatically considered probationary students.

More specifically, students must attain the following scholastic indices in order to remain in the College:

| | |
|---|---|
| a. Students with 0 to 32 credits | 1.60 |
| b. Students with 33 to 63 credits | 1.60 |
| c. Students with 64 to 95 credits | 1.80 |
| d. Students with 96 or more credits | 2.00 |

A minimum cumulative index of 2.00 (C) for all work taken at the College is required for Senior Standing and graduation.

Transfer students are required to maintain the cumulative indices indicated above. The number of credits taken at West Chester is added to the number of credits transferred in, for the purpose of determining the credit hours attempted. For example, 34 credits transferred in and 32 credits at the College equal 66 credits and require a minimum index of 1.80.

## ACADEMIC DISMISSAL

If a student does not attain the required cumulative index by the end of the spring semester, he may attend Summer Sessions at West Chester in order to improve his academic average. If he does not attain the required cumulative index by the end of a Session, he is dismissed from the College.

After his first academic dismissal from West Chester, he may apply for readmission as described below. A second academic dismissal automatically terminate his degree candidacy at West Chester. All courses taken as a non-degree student, following termination of degree candidacy for the second dismissal, shall not be included in his grade-point average nor imply the right to readmission to the College.

## REPEATING COURSES

A student must repeat any *required* courses in which he earned grades of F at West Chester. He *may* repeat any course for which he received an F or D. The repeat grade will stand as the final grade for graduation,

but the original grade will not be erased from the student's record and will be computed into the cumulative index. Repeated courses for which D and F grades were received must be taken at West Chester.

## READMISSION

*Readmission to West Chester as a degree candidate is not possible if the student has been permanently dismissed because of academic failure.* (See *Academic Dismissal,* above.)

If a student fails to meet requirements for reinstatement following attendance at the West Chester summer sessions, the following course of action applies:

(1) The student must achieve the required grade-point average for readmission. (See *Maintenance of Minimum Standards,* above.) The student is not eligible for readmission as a degree candidate until he has remained away from West Chester State College as a full-time student for a period of at least one academic semester following academic dismissal.

(2) In an effort to secure the required grade-point average, he may register for courses in evening classes or summer sessions at West Chester as a part-time non-degree student. (Courses taken at other colleges or universities, even though

approved by the Dean of Undergraduate Studies, will *not* be considered in computing the cumulative index.)

(3) Candidates for readmission must file an application with the Director of Admissions by August 1 or December 15.

(4) Readmission status is granted only after approval by the Academic Standards Committee, the major department or school, and the Dean of Men or Women.

## ROOM RESERVATION POLICY FOR REINSTATED STUDENTS

Room reservations are not held for resident students who are in academic difficulty at the close of the spring semester. If students attend summer sessions and are reinstated for the following fall semester, they must re-apply for housing.

## GRADE REPORTS

After each semester, the Director of Scheduling and Academic Records mails a report of each student's semester grades to the student's home address.

## HONORS WORK

The Honors Program, which is limited to five per cent of the students in any program, is designed to stimulate the superior student to develop his powers of research and original thinking. The Honors program may be pursued by students in both the arts and sciences and in teacher education.

The honors student is challenged toward deepened comprehension in his field and toward intellectual achievement beyond that demanded by the College's standard graduation requirements. He is expected to make full use of West Chester's resources in the classroom, laboratory, research centers, and library, and beyond these, to seek new perspectives in his field and the areas it encompasses.

Although students may request consideration, enrollment is by invitation from the pertinent faculty, with approval from the Dean of the School providing the program. A cumulative index of 3.00 or better in both general work and the specialization is required. The student must have completed four semesters at West Chester.

To earn a degree with honors, the student must satisfactorily complete no less than twelve (and no more than 24) semester hours in honors work in his specialization and related areas. A grade of B or better is required for any honors credit given. Honors work usually falls into two categories: *in-course* and *out-course* work. Research may result in either a thesis-type term paper or a research report dealing with the solution of a statistical or mathematical problem.

## ACADEMIC HONORS LISTS

The Dean's Lists are published at the close of each semester.

*High Honors List* — cumulative index of 3.50-4.00
*Honors List* — cumulative index of 3.00-3.49

Students with appropriate cumulative indices at the end of their sixth semester (at least 96 semester hours) may be graduated with one of four distinctions, provided these 96 credits were earned at West Chester. The distinctions are:

*summa cum laude* — cumulative index of 3.75-4.00
*magna cum laude* — cumulative index of 3.50-3.74
*cum laude* — cumulative index of 3.25-3.49
*honors* — cumulative index of 3.24

## STUDENT CLASS LOAD

A full-time student's schedule must have a normal load. This may range from twelve to seventeen semester hours of credit.

## STUDENT LOAD FOR VETERANS

The Veterans Administration requires a student to schedule at least fourteen semester hours per semester in order to receive full benefits under the G. I. Bill. (All veterans' affairs are dealt with in the offices of the Director of Scheduling and Academic Records.)

## CLASS ATTENDANCE

Regular and punctual attendance at classes is considered essential to sound scholarship and good campus citizenship. A student handbook, given the student upon registration, states the absence policy in detail.

## WITHDRAWAL FROM A COURSE

A student has the privilege of withdrawing from a course within the first four weeks of a semester. He must first notify the Office of Undergraduate Studies and then his instructor, who will delete the student's name from the roll.

After the first four weeks of a semester, a withdrawal will not be approved except for special reasons and emergencies. The student initiates his request for an approved withdrawal with his instructor. The request is then acted upon by the department chairman and the Dean of Undergraduate Studies.

If the student is doing passing work at the time of approved withdrawal, a WP (Withdrawn Passing) will merely be noted on his permanent record; it will not be treated as a grade. On the other hand, if a WF (Withdrawn Failing) is given, the student receives an F on his record. A student who drops a course without official permission is given an F.

## WITHDRAWAL FROM THE COLLEGE

A student intending to withdraw from the College must give the Dean of Undergraduate Studies written notice, indicating why and when he plans to do so. The student who fails to comply with this requirement

will be declared not a member of the College, after ten days of an unexplained absence. His last day in classes will be considered the date which terminates his connection with the College.

When, owing to illness or other reasons, a student discontinues his work at the College, he must notify the Dean of Undergraduate Studies at once. Unless a student withdraws officially, F grades for unfinished courses are recorded.

## CREDIT BY EXAMINATION

Students wishing to secure credit by examination must apply on forms which they may obtain from the Office of Undergraduate Studies. The privilege of taking a course by examination is subject to the following:

(1) Application must be made within the first two weeks of a semester.

(2) The student must have a cumulative average of at least 3.00 in the major area.

(3) The student must give evidence of a satisfactory academic background for the course.

(4) The request must be approved by the dean or department chairman of the area concerned.

(5) An examination fee is charged.

(6) The grade received will be recorded on the student's permanent record card and will be credited toward graduation requirements.

## AUDITING PRIVILEGES

Anyone who wishes to attend the College for the sole purpose of auditing a course or courses may do so upon receiving permission from the Dean of Undergraduate Studies. Regular semester-hour fees are charged. Auditors have the privilege of attending the class and taking part in class discussion. At the instructor's discretion, auditors may take the examinations; however, no letter grades and no credit will be recorded.

Enrolled students may have auditing privileges under the following conditions:

(1) The Dean of Undergraduate Studies must give approval.

(2) The student must have a cumulative index of 2.75 or better.

(3) The professor teaching the requested course must give approval.

(4) No more than one course per semester may be audited.

(5) Application for auditing privileges must be in the Undergraduate Office during the first two weeks of a semester.

(6) Once enrolled as an auditor, the student may not receive credit for the course he is auditing. Audited courses will not appear on the student's record.

(7) Provided he is a full-time student, the auditor is not charged a fee for the course.

## ADVANCED PLACEMENT PROGRAM

Courses taken under the Advanced Placement Program offered by the College Entrance Examination Board, Princeton, New Jersey, may be applied toward advanced placement in the College and/or toward credit requirements for graduation. Application for credit must be made by July 1 to the Dean of Undergraduate Studies. The College recognizes grades of 5 and 4 as acceptable, but not grades 3, 2, or 1.

If an application is approved, the student registers for the course and pays the fee. There is no fee for an application for advanced standing without credit. Not more than fifteen credits earned under the Advanced Placement Program may be applied toward graduation requirements. Information concerning the Advanced Placement Program may be obtained from the New York City offices of the College Entrance Examination Board, 475 Riverside Drive, New York, New York 10027, or from high school guidance counselors.

## RESIDENT CREDIT REQUIREMENT

To qualify for graduation from a degree curriculum, a student must take his last 30 semester hours of credit at West Chester. Resident credits may be earned in day, evening, and Saturday classes.

## STUDENT TEACHING

Student teaching is to be taken in the seventh or eighth semester and normally culminates the professional experience in pre-service preparation for teaching. Students are required to file applications for student teaching one year prior to their student-teaching semester. Regular meetings for student-teaching registration are scheduled annually for the first week in February. Prospective student teachers must attend one of these meetings.

Students must do their student teaching in stations in school areas where the College holds a contract for student teachers.

To be eligible for student teaching, candidates must have Senior Standing (96 semester hours), a cumulative index of 2.00 (C) or higher,

and must have completed all course work required in the first six semesters. Applications for admission to student teaching are reviewed by the department in which the applicant wishes to secure certification, by the Dean of Undergraduate Studies, and by the Director of Student Teaching.

## REQUIREMENTS FOR GRADUATION

A student is recommended for graduation upon the satisfactory completion of a minimum of 128 semester hours and upon the fulfillment of all categories of the requirements for his degree. A minimum cumulative index of 2.00 (C) is required for graduation. Degree requirements are fully set forth in this catalogue, under the heading of the subject field, in the section entitled Programs of Study and Degree Requirements. The final 30 semester hours of credit must be attained at West Chester.

## NOTICE OF ANTICIPATION OF GRADUATION

It is the student's responsibility to report to the office of the Dean of Undergraduate Studies at least three months before the date of anticipated graduation. The student must see that his name, written as he desires, is placed upon the list of prospective graduates. Otherwise, recognition of his graduation will be postponed until the next regular Commencement. Diplomas will not be issued until all bills and obligations to the College are met.

## TRANSCRIPTS

Applications for official transcripts should be made in writing to the Director of Scheduling and Academic Records. There is no charge for the first transcript, supplied at graduation, nor for transcripts sent to Pennsylvania school officials with applications for a position. A charge of one dollar each is made for all other transcripts. Checks, payable to the "Commonwealth of Pennsylvania," must accompany requests.

Transcripts are considered official only when sent directly from the institution issuing them to the authority who is to evaluate or record them. Most school and college authorities accept only official transcripts. When requesting them, students need to give the names and addresses of the officials who are to receive them.

## ARMED SERVICES ROC PROGRAM

The College, with the approval of the Board of Trustees, has a policy under which West Chester students enrolled in the Armed Services ROC (Reserve Officer Candidate) Program may receive six semester hours of baccalaureate credit upon the successful completion and certification of ROC military requirements. Such credits are classified as free elective transfer credits. Depending on the status of each student's program at the time of transferring ROC credits, such credits will be counted toward, or in excess of, the 128 credits required for a baccalaureate degree.

ROC programs are contingent on the successful completion of military requirements during summer vacation and the earning of a college degree before being granted the service commission. The programs cover the Navy's Basic and Advanced Reserve Officer Candidate courses and the Marine Corps' Junior and Senior Platoon Leadership courses.

## TEACHING CERTIFICATES

*Instructional I Certificate.* A student who satisfactorily completes one of the teacher education curricula offered by the College receives his degree from the College and qualifies for an Instructional I Certificate (formerly the Provisional College Certificate) which is issued to him by the Pennsylvania Department of Education.

In the elementary field this certificate qualifies the holder to teach in the elementary schools of Pennsylvania for three years.

In the secondary field this certificate qualifies the holder to teach the subject written thereupon in the secondary schools of Pennsylvania for three years.

In health education, health and physical education, music education, foreign languages, and in the program in speech pathology and audiology, the certificate qualifies the holder to teach the specified subject in the public schools of Pennsylvania for three years.

*Instructional II Certificate.* This Certificate, formerly described as the Permanent College Certificate, requires three years of successful teaching in the public schools of Pennsylvania under the Instructional I Certificate and the satisfactory completion of 24 semester hours of additional work of collegiate grade, completed subsequent to the issuance of the baccalaureate degree. This certificate is a permanent license to teach in

Pennsylvania. When prepared for the Instructional II Certificate, teachers may obtain application instructions from superintendents of schools or county superintendents of schools.

## EXTENSION OF COLLEGE CERTIFICATES

(1) A college certificate valid for the secondary field may be extended to include the elementary field by completing 24 semester hours of approved courses in the field of elementary education, distributed as follows: a course in the teaching of reading, the remainder selected from a minimum of four of the following areas: mathematics, art, music, health and physical education, language arts, sciences, social studies, and geography.

(2) A college certificate valid for the elementary field may be extended to include any subject of the secondary field by completing the College's field requirement for it (see *Specialization for Secondary Teaching* in School of Education) and the related methods course.

(3) A college certificate valid for the secondary field may be extended to include additional academic subjects by completing the College's field requirements for them. (See *Specialization for Secondary Teaching* in School of Education.)

## COLLEGE COURSES FOR TEACHERS

Each semester a number of late-afternoon, evening, and Saturday-morning courses are offered for teachers in service who wish to satisfy various professional needs, including certification requirements. The courses given are selected with the idea of accommodating as many teachers as possible. Unless special permission is given by the Dean of Undergraduate Studies, not more than six semester hours of credit will be allowed for courses completed in any one semester by a student who is a regularly employed full-time teacher. The basic fee is the same as for other part-time students (see Expenses). The College welcomes suggestions for courses to be offered evenings or Saturdays. Such suggestions may be directed to the Dean of Undergraduate Studies.

### Teachers in Service

The College does not grant credits for teaching experience. Credit for student teaching other than that done under the direction of the College will not be allowed.

# Programs of Study

## DEGREE REQUIREMENTS

West Chester State College offers programs leading to the Bachelor of Arts; the Bachelor of Science in Education, Business Administration, and Chemistry; and the Bachelor of Music degrees. Teacher education programs may be undertaken in elementary education, secondary education with specialization in any of a number of disciplines, health and physical education in two areas, music education, and speech pathology and audiology.

The Bachelor of Arts degree may be earned in fields within arts and letters, the social and behavioral sciences, the sciences, mathematics, and music. It is also possible for the student to develop a pre-professional program within the structure of the appropriate concentration; several of these programs are interdisciplinary in nature.

Certain basic studies (General Requirements) are common to all curricula. Although minor variations exist, these studies are normally composed of courses in arts and letters, social sciences, and sciences-mathematics. The student must consult with his academic adviser to determine the specific courses which will fulfill his General Requirements. (See the basic design for General Requirements on Page 75.)

All undergraduate curricula offered at West Chester may be noted on the chart at the opening pages of this catalogue. For detailed information about programs and degree requirements, consult the material given under

the appropriate School. The Schools are alphabetically arranged, as follows:

School of Arts and Letters
School of Education
School of Health and Physical Education
School of Music
School of Sciences and Mathematics
School of Social and Behavioral Sciences

The Schools of Arts and Letters, Sciences and Mathematics, and Social and Behavioral Sciences work jointly with the School of Education in developing degree requirements in secondary education. The responsibility for final certification of all students seeking the Bachelor of Science in Education rests with the Dean of Undergraduate Studies and, finally, with the Dean of the School of Education. (The professional-education requirements for secondary education majors are found under the School of Education.)

There is also close cooperation and interchange among all of the Schools of the College in the development of these respective curricula. For example, the programs of the School of Arts and Letters are broadened by appropriate courses given in the School of Music.

### Interdisciplinary Programs

Three interdisciplinary programs—American Studies, Latin-American Studies, and Russian Studies—which lead to the Bachelor of Arts degree are shown following the School of Social and Behavioral Sciences. These programs draw in varying degrees on the resources of all Schools of the College.

*All courses, and the sequences in which they are given, are subject to change for administrative reasons.*

# GENERAL REQUIREMENTS FOR ALL CURRICULA

## 1 SKILLS AND COMPETENCIES: 12 or 18 semester hours

| | | |
|---|---|---|
| a. | English Composition | 6 |
| b. | Speech | 2 |
| c. | Foreign Language | 0 or 6 |

Required at intermediate level for all B.A. degrees, B.S. in Business Administration, and B.S. in Education in English.
If the B.A. is in biology, physics, or mathematics, the language must be French, German, or Russian.
The B.S. in chemistry requires German, but 101-2 level is sufficient. French (101-2) may be substituted if a reading proficiency in German is demonstrated.
The B.Mus. requires 6 s.h. of foreign language—need not be at intermediate level.
Except in the field of English, there is no foreign-language requirement for the B.S. in Education.

| | | |
|---|---|---|
| d. | Physical Education | 2 |
| e. | Health | 2 |

## 2 ARTS AND LETTERS: 15 semester hours

| | | |
|---|---|---|
| a. | Literature (1 Required, 1 Elective) | 6 |
| b. | Art | 3 |
| c. | Music | 3 |
| d. | Philosophy | 3 |

## 3 SOCIAL SCIENCES: 15 semester hours

| | | |
|---|---|---|
| a. | History (1 Required, 1 Elective) | 6 |
| b. | Geography | 3 |
| c. | Psychology or Sociology | 3 |
| d. | Political Science or Economics | 3 |

## 4 SCIENCES: 11 semester hours

| | | |
|---|---|---|
| a. | Science (with Lab) | 8 |
| b. | Mathematics | 3 |

## 5 FREE ELECTIVES: 3 semester hours

| | | |
|---|---|---|
| | TOTAL | 56 or 62 |

The courses required should be mutually agreeable to the curricular areas concerned. Freedom of choice for the student, with his adviser's approval, to elect substitutes to meet area requirements is recommended. Majors in business administration, chemistry, elementary education, health education, health and physical education, music education, and B. Mus. majors will find the minor variations in their General Requirements outlined in their curricula.

# School of Arts and Letters

John W. Clokey, *Dean*

Department of Art
Department of English
Department of Foreign Languages
Department of Philosophy
Department of Speech and Theatre

## BACHELOR OF ARTS

Art
Foreign Languages
Literature
Philosophy
Speech Arts
Theatre Arts

## BACHELOR OF SCIENCE IN EDUCATION

Comprehensive English
Foreign Languages
Speech and Theatre
Speech Pathology and Audiology

*All B.A. students in Arts and Letters note*: Throughout the School of Arts and Letters, all B.A. programs have one component in common: the Arts and Letters Core Requirement. Because this Core is standard for every B.A. program in the five departments, it is printed only once, in the following outline. The student will find reference to this outline at Part II, as he studies his Department's B.A. program.

## ARTS AND LETTERS CORE REQUIREMENTS | 18 Semester Hours

(Part II—B.A. programs in Art, Foreign Languages, Literature, Philosophy, Speech Arts, Theatre Arts)

Select 18 s.h. from groups below, but no more than 6 s.h. from any one group. Courses are 3 credits except for music courses shown as 2 credits.

### [1] PHILOSOPHY

Lit 321–Great Books I
Lit 322–Great Books II
Lit 349–Bible as Literature
Phi 360–Philosophy of Language
Phi 374–Aesthetics
Phi 380–Ethics
Phi 461–Indian Thought
Phi 462–Chinese and Japanese Thought
Phi 470–History of Philosophy, Ancient
Phi 471–History of Philosophy, Medieval
Phi 472–History of Philosophy, Modern
Phi 486–Philosophy of Religion
Phi 490—Logic

### [2] HISTORY AND LITERATURE OF THE THEATER

Lit 332–English Drama to 1642
Lit 333–Shakespeare I
Lit 334–Shakespeare II
Lit 355–Modern British Drama
Lit 356–Modern Continental Drama
Lit 357–Modern American Drama
ThA 308–History of the Theatre to 16th C.
ThA 309–History of the Theatre from 16th C. to Present
ThA 310–History and Aesthetics of the Oriental Theatre

### [3] MUSIC HISTORY AND LITERATURE

**Note: students should meet General Requirements with either the normal Mus 121 (Fine Arts; Music) or Mus 122. Preferably, the latter should be followed by Mus 123 in Core. Note also: students with sufficient background in music may, under advisement, choose Music in Western Civilization I (Mus 221) in place of its less technical parallel (Mus 122). Such students may then meet their General Requirements with Music in Western Civilization II (Mus 222).**

Mus 122–Music History I
Mus 123–Music History II
Mus 320–Contemporary Styles (2)
Mus 322–American Music (2)
Mus 323–Aesthetics and Music Criticism (2)
Mus 421–Literature of the Musical Theater (2)
Mus 422–Musico-Dramatic Production I (2)
Mus 423–Musico Dramatic Production II (2)

### [4] ART HISTORY

Art 381–Near Eastern Art: Ancient Antiquity
Art 382–Western Art I: Classical Antiquity
Art 383–Western Art II: Middle Ages
Art 384–Western Art III: Renaissance-Baroque
Art 401–History of Aesthetics and Art Criticism
Art 402–Aesthetics: Contemporary Art Forms
Art 403–Primitive Art (also Ant 403)
Art 405–Russian Art: Revolution vs. Tradition
Art 407–Oriental Art
Art 408–Arts of the United States I
Art 409–Arts of the United States II
Art 411–Latin-American Art

## DEPARTMENT OF ART

DR. KURUNA, *Chairman*

**PROFESSORS**

HALLMAN
KURUNA

**ASSOCIATE PROFESSORS**

HAWTHORNE
HOBERG
McKINNEY
SIMMENDINGER
STEIN

**ASSISTANT PROFESSORS**

MEHL
NEWMAN
RARICK
RING
SMITH
WHITE

**INSTRUCTOR**

SHAPIRO

## BACHELOR OF ARTS

### Art

The major in art is designed to prepare students either for the broad areas of visual communications and environmental design or for competence in a specific medium or selected media. The program also teaches the language of visual expression from the twin approaches of historical analysis and studio practice. There is special focus on art as an integrating force within the arts and letters program. The major must be planned under advisement from the Department of Art faculty.

Degree candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

II Arts and Letters Core Requirements - - 18 Semester Hours

See Page 78.

III Art Concentration Requirements - - - 36 Semester Hours

Art 101—Fine Arts [Art]
(credited to General Requirements)
Art 106—Drawing I
Art 111—Design I
Art 112—Design II

Choose either A. *Studio Art* or B. *Art History*:

*A. Studio Art*

18 semester hours in Studio Art, chosen under advisement from available Art offerings

9 semester hours in Art History

*B. Art History*

Art 381—Near Eastern Art: Ancient Antiquity
Art 382—Western Art I: Classical Antiquity
Art 383—Western Art II: Middle Ages
Art 384—Western Art III: Renaissance-Baroque
Art 385—Western Art IV: Romanticism
Art 403—Primitive Art
An additional 9 semester hours of Art History, elected from other Art History offerings

## IV Electives - - - - - - - - - 12 Semester Hours

A typical sequence of courses may be obtained from the Department.

## OFFERINGS IN ART

Art 101 Fine Arts [Art]
Art 106 Drawing I: Perspective, Proportion, Composition
Art 107 Drawing II: Advanced Techniques and Problems
Art 111 Design I: Color Theory and Two-Dimensional Techniques
Art 112 Design II: Three-Dimensional Techniques
Art 211 Design: Communication Techniques, Lettering, Layout
Art 216 Painting I: Fundamental Techniques—Basic Composition
Art 217 Painting II: Concepts of Visual Imagery
Art 221 Sculpture I: Subtractive Techniques
Art 222 Sculpture II: Additive Techniques
Art 226 Water Color: Basic Water-Based Techniques
Art 227 Water Color: Intermediate Water-Based Techniques
Art 231 Ceramics I: Basic Techniques and Glaze Calculations
Art 232 Ceramics II: Intermediate Techniques and Glaze Calculations
Art 241 Graphics I
Art 242 Graphics II
Art 251 Art in the Elementary School I
Art 252 Art in the Elementary School II
Art 256 Art in Elementary Education
Art 261 Arts and Crafts: Recreation
Art 263 Arts and Crafts: Special Education

(Continued)

Art 266 Crafts: Three-Dimensional Media for Elementary Education
Art 316 Painting: Advanced Painting Problems
Art 317 Painting: Head and Figure
Art 321 Sculpture: Advanced Subtractive Techniques
Art 322 Sculpture: Advanced Additive Techniques
Art 331 Ceramics: Advanced Techniques and Glaze Calculations
Art 332 Ceramics: Kiln Construction
Art 345 Graphics: Independent Studies
Art 346 Crafts: Jewelry and Metalwork
Art 381 Near Eastern Art: Ancient Antiquity
Art 382 Western Art I: Classical Antiquity
Art 383 Western Art II: Middle Ages
Art 384 Western Art III: Renaissance-Baroque
Art 385 Western Art IV: Romanticism
Art 401 History of Aesthetics and Art Criticism
Art 402 Aesthetics: Contemporary Art Forms
Art 403 [also Ant 403] Primitive Art
Art 405 Russian Art: Revolution vs. Tradition
Art 407 Oriental Art
Art 408 Arts of the United States: Material Culture I
Art 409 Arts of the United States: Material Culture II
Art 411 Latin-American Art
Art 414 Research and Methodology

## DEPARTMENT OF ENGLISH

MR. CLOKEY, *Chairman*

**PROFESSORS**

BAILEY
BERRY
CLOKEY
GARRETT
HALLEY
HAVILAND
HAYWARD
JORDAN
KERSHNER
McKENTY
MARKOW
NEWMAN
OLDSEY
SLAGLE
TAYLOR
THOMAS
WEST

**ASSOCIATE PROFESSORS**

BERGER
BOSWORTH-FLING
BROWNE
BRUTON
CHIRICHELLA
CORR
FORDYCE
HENRY
HUNSBERGER
KELLEHER
KELLY
LANDRUM
McDOWELL
MENKIN
MILLER
MOISIADES
PAGE
PARKER
PRATER
SMITH, E.
SMITH, J.
SMITH, R.
WARD
WATKINS
WEISS
WISE
ZIEGLER

**ASSISTANT PROFESSORS**

BONKOSKI
BOYLAN
FORD
McGRATH
MATHEWS
MYRSIADES
PEICH
RIMEL
THURBON

**INSTRUCTORS**

COMBS
GILES
HARDIGAN
L'HEUREUX (PART-TIME)
ROWE

## BACHELOR OF ARTS

### Literature

The major in literature is a logical preparation for graduate studies, journalism, publishing, editing, public relations, advertising, specialized fields of business and industrial operations, and certain government careers. Competence in writing and familiarity with the literature of the Western world are foundations for leadership in many areas. The program should be planned with the adviser's help.

Candidates must complete a minimum of 128 semester hours, distributed among four areas as follows:

1 General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

The required 6 hours of a foreign language must be through the intermediate (201-202) level.

The basic literature requirement is met with Lit 121 and Lit 127.

## II Arts and Letters Core Requirements - - 18 Semester Hours

See Page 78.

## III Literature Concentration Requirements - - 39 Semester Hours

Eng 101—English Composition I
Eng 102—English Composition II
(101-102 credited to General Requirements)
Lit 121—General Literature I
Lit 127—General Literature II
(121-127 credited to General Requirements)
Foreign Language—201-202
(credited to General Requirements)

Electives chosen, under advisement, from the following:

Lit 223—American Literature I
Lit 224—American Literature II
Lit 225—English Literature I
Lit 226—English Literature II
Lit 328—Milton
Lit 329—Classical Mythology
Lit 330—Medieval Literature in England
Lit 331—Chaucer
Lit 332—English Drama to 1642
Lit 333—Shakespeare I
Lit 334—Shakespeare II
Lit 335—Restoration and Eighteenth Century Literature
Lit 336—The Romantic Movement
Lit 337—Victorian Literature
Lit 338—Modern Irish Literature
Lit 340—Minority Cultures in American Literature
Lit 344—Literary Form and Content Since World War II
Lit 345—Criticism
Lit 346—Essay
Lit 347—Literature of Biography
Lit 348—Short Story
Lit 354—Restoration and Eighteenth Century Drama
Lit 355—Modern British Drama
Lit 356—Modern Continental Drama
Lit 357—Modern American Drama
Lit 360—Tudor Literature
Lit 361—Stuart Literature
Lit 370—Origins of the British Novel
Lit 371—Nineteenth Century British Novel
Lit 372—Development of the American Novel
Lit 373—Modern British Novel
Lit 374—Modern American Novel
Lit 380—Modern Poetry I
Lit 381—Modern Poetry II
Lit 385—Colonial and Revolutionary American Literature
Eng 211—Mass Media in Society
Eng 216—News Reporting
Eng 217—Feature Writing
Eng 218—History of Communications
Eng 313—Advanced Writing
Eng 314—History of Language
Eng 315—Modern English Grammar
Eng 317—Old English Language and Literature
Eng 318—Middle English Language and Literature
Eng 319—American English
Eng 321—Creative Writing
Eng 400—English Honors Seminar
Hum 400—Contemporary Arts: An Aesthetics Approach
Phi 360—[also Lan 360] Philosophy of Language

A complete list of English offerings may be noted under Course Descriptions.

## IV Electives - - - - - - - - - 9 Semester Hours

A typical sequence of courses may be obtained from the Department.

## B.S. IN EDUCATION

### Comprehensive English

A student may qualify for the Pennsylvania Instructional I Certificate in Comprehensive English by completing a minimum field requirement of 36 semester hours in English. Degree candidates must satisfactorily complete a minimum of 128 semester hours, distributed as follows:

**I General Requirements - - - - - 62 Semester Hours**

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

The required 6 hours of a foreign language must be through the intermediate (201-202) level.

The basic literature requirement is met with Lit 121 and Lit 127.

**II Professional Education Requirements - - 28 Semester Hours**

(See School of Education—locate by leafing to black bar on margin.)

**III Specialized Preparation and Electives - - 36 Semester Hours**

Lit 121—General Literature I
Lit 127—General Literature II
(121-127 credited to General Requirements)
Lit 223—American Literature I
Lit 224—American Literature II
Lit 225—English Literature I
Lit 226—English Literature II
Eng 313—Advanced Writing
Eng 314—History of Language
Eng 315—Modern English Grammar
Eng 316—Teaching English in Secondary Schools
(credited to Professional Education)
Foreign Language 201-202
(Credited to General Requirements)

*Electives* — at least 15 semester hours are to be elected. Twelve of these must come from the following three groups:

*Group I (Choose at least one)*

Eng 317—Old English Language and Literature
Eng 318—Middle English Language and Literature
Eng 319—American English
Lit 328—Milton
Lit 330—Medieval Literature in England
Lit 331—Chaucer
Lit 332—English Drama to 1642
Lit 333—Shakespeare I
Lit 334—Shakespeare II
Lit 360—Tudor Literature
Lit 361—Stuart Literature

*Group 2 (Choose at least one)*

Lit 321—Great Books I
Lit 322—Great Books II
Lit 329—Classical Mythology
Lit 335—Restoration and Eighteenth Century Literature
Lit 336—The Romantic Movement
Lit 337—Victorian Literature
Lit 338—Modern Irish Literature
Lit 353*–Reading Interests of Secondary School Students
Lit 354—Restoration and Eighteenth Century Drama
Lit 370—Origins of the British Novel
Lit 371—Nineteenth Century British Novel
Lit 372—Development of the American Novel
Lit 385—Colonial and Revolutionary American Literature

*Group 3 (Choose at least one)*

Eng 211—Mass Media in Society
Eng 212*–Principles of Newspaper Production I
Eng 213*–Principles of Newspaper Production II
Eng 214*–Principles of Yearbook Production I
Eng 215*–Principles of Yearbook Production II
Eng 216*–News Reporting
Eng 217*–Feature Writing
Eng 218*–History of Communications
Eng 321—Creative Writing
Lit 340—Minority Cultures in American Literature
Lit 344—Literary Form and Content Since World War II
Lit 345—Criticism
Lit 346—Essay
Lit 348—Short Story
Lit 349—Bible As Literature
Lit 355—Modern British Drama
Lit 356—Modern Continental Drama
Lit 357—Modern American Drama
Lit 373—Modern British Novel
Lit 374—Modern American Novel
Lit 380—Modern Poetry I
Lit 381—Modern Poetry II
Hum 400—Contemporary Arts: an Aesthetics Approach

IV Free Electives - - - - - - - 2 Semester Hours

A typical sequence of courses may be obtained from the Department.

## ADDITIONAL OFFERINGS IN ENGLISH

A complete listing of courses offered by the Department of English may be found under Course Descriptions.

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*May be counted toward credit for 36-hour field requirement only upon approval by adviser.

## DEPARTMENT OF FOREIGN LANGUAGES

DR. ROBERTS, *Chairman*

**PROFESSORS**
FRIEMAN
GUTWIRTH
PFUND (PART-TIME)
ROBERTS
SMITH

**ASSOCIATE PROFESSORS**
ESCORCIA
GLUMAC
GOUGHER
KUHLMANN
LOMBARDI
NUNEZ
SCHNEIDER

**ASSISTANT PROFESSORS**
EISENSTADT
GREENE
KULASKI
KULHANEK
LIPSCOMB
PUERTA
REISS (PART-TIME)

**INSTRUCTORS**
BROWN
GEORGIOU (PART-TIME)
PETERS (PART-TIME)

## BACHELOR OF ARTS

### Foreign Languages

French
German
Latin
Russian
Spanish

The program in foreign languages is intended as a preparation for careers involving the use of bilingual skills in government, business and industry, export-import companies, travel agencies, publishing houses, and social work. It is also intended as a preparation for graduate studies leading to advanced degrees. The major should be planned with the help of the faculty adviser. In most instances, the student will be strongly advised to elect Applied Linguistics (Lan 302).

Candidates for the B.A. degree, with a concentration in any one of the foreign languages, must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I General Requirements - - - - - 62 Semester Hours
(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

II Arts and Letters Core Requirements - - 18 Semester Hours
See Page 78.

III Foreign Language Concentration Requirements - 39 Semester Hours
(Shown below, under the heading of each language.)

IV Free Electives - - - - - - - - 9 Semester Hours

Applied Linguistics (Lan 302) is strongly recommended. Courses in music, literature, art, or the social sciences will be suggested in the light of the student's particular interests.

### *FRENCH — CONCENTRATION REQUIREMENTS (39 HOURS)*

Fre 101*–Elementary French I
Fre 102*–Elementary French II
Fre 201—Intermediate French I
Fre 202—Intermediate French II
(201-202 credited to General Requirements)
Fre 203—Advanced Grammar and Composition
Fre 204—Advanced Oral French
Fre 205—Survey of Literature I
Fre 206—Survey of Literature II

Additional courses to complete the 39 hours are to be selected, under advisement, from French electives and/or related fields.

ELECTIVES

Electives in French are shown following Specialized Preparation for the B.S. in Education (French).

A typical sequence of courses may be obtained from the Department.

### *GERMAN — CONCENTRATION REQUIREMENTS (39 HOURS)*

Ger 101*–Elementary German I
Ger 102*–Elementary German II
Ger 201—Intermediate German I
Ger 202—Intermediate German II
(201-202 credited to General Requirements)
Ger 203—Advanced Grammar and Composition
Ger 204—Advanced Oral German
Ger 205—Survey of Literature I
Ger 206—Survey of Literature II

Additional courses to complete the 39 hours are to be selected, under advisement, from German electives and/or related fields.

ELECTIVES

Electives in German are shown following Specialized Preparation for the B.S. in Education (German).

A typical sequence of courses may be obtained from the Department.

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* Foreign language majors receive no credit toward graduation for 101 and 102 except in the case of students who, having completed their language requirements in their major, take the 101 and/or 102 level(s) of a second foreign language as free elective(s).

### *LATIN — CONCENTRATION REQUIREMENTS (39 HOURS)*

Lat 101*–Elementary Latin I
Lat 102*–Elementary Latin II
Lat 201—Cicero
Lat 202—Vergil
(201-202 credited to General Requirements)
Lat 303—Latin Prose Composition

Additional courses to complete the 39 hours are to be selected, under advisement, from Latin electives and/or related fields.

ELECTIVES

Electives in Latin are shown following Specialized Preparation for the B.S. in Education (Latin).

A typical sequence of courses may be obtained from the Department.

### *RUSSIAN — CONCENTRATION REQUIREMENTS (39 HOURS)*

Rus 101*–Elementary Russian I
Rus 102*–Elementary Russian II
Rus 201—Intermediate Russian I
Rus 202—Intermediate Russian II
(201-202 credited to General Requirements)
Rus 203—Advanced Grammar and Composition
Rus 204—Advanced Oral Russian
Rus 205—Advanced Readings in Russian I
Rus 206—Advanced Readings in Russian II

Additional courses to complete the 39 hours are to be selected, under advisement, from Russian electives and/or related fields.

ELECTIVES

Electives in Russian are shown following Specialized Preparation for the B.S. in Education (Russian).

A typical sequence of courses may be obtained from the Department.

### *SPANISH — CONCENTRATION REQUIREMENTS (39 HOURS)*

Spa 101*–Elementary Spanish I
Spa 102*–Elementary Spanish II
Spa 201—Intermediate Spanish I
Spa 202—Intermediate Spanish II
(201-202 credited to General Requirements)
Spa 203—Advanced Grammar and Composition
Spa 204—Advanced Oral Spanish
Spa 205—Survey of Literature (Golden Age)
Spa 206—Survey of Literature (Since 1800)

Additional courses to complete the 39 hours are to be selected, under advisement, from electives in Spanish and/or related fields.

ELECTIVES

Electives in Spanish are shown following Specialized Preparation for the B.S. in Education (Spanish).

A typical sequence of courses may be obtained from the Department.

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* Foreign language majors receive no credit toward graduation for 101 and 102 except in the case of students who, having completed their language requirements in their major, take the 101 and/or 102 level(s) of a second foreign language as free elective(s).

## B.S. IN EDUCATION

### Foreign Languages

French
German
Latin
Russian
Spanish

A student may qualify for the Pennsylvania Instructional I Certificate in a foreign language by completing a minimum field requirement of 30 semester hours in the language. Pennsylvania Certification in the Modern Foreign Languages is contingent on satisfactorily passing the Modern Language Association Proficiency Tests for Teachers and Advanced Students. Degree candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I General Requirements - - - - - 56 Semester Hours
(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

II Professional Education Requirements - - 28 Semester Hours
(See School of Education—locate by leafing to black bar on margin.)

III Specialized Preparation - - - - - 30 Semester Hours
(Shown below, under the heading of each language.)

IV Electives - - - - - - - - - 14 Semester Hours
Applied Linguistics (Lan 302) is strongly recommended.

*FRENCH—SPECIALIZED PREPARATION (30 HOURS)*

Fre 101*–Elementary French I
Fre 102*–Elementary French II
Fre 201—Intermediate French I
Fre 202—Intermediate French II
Fre 203—Advanced Grammar and Composition
Fre 204—Advanced Oral French
Fre 205—Survey of Literature I
Fre 206—Survey of Literature II
Lan 301—Teaching of Modern Languages
(credited to Professional Education)

Additional courses to complete the 30 semester hours must be selected from French electives.

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* Foreign language majors receive no credit toward graduation for 101 and 102 except in the case of students who, having completed their language requirements in their major, take the 101 and/or 102 level(s) of a second foreign language as free elective(s).

ELECTIVES IN FRENCH

Fre 304—French Civilization
Fre 401—French Literature of the 18th Century
Fre 402—French Literature of the 19th Century
Fre 403—Contemporary French Literature
Fre 404—French Classical Drama
Fre 410—Honors Seminar
Fre 411—Honors Seminar

A typical sequence of courses may be obtained from the Department.

*GERMAN — SPECIALIZED PREPARATION (30 HOURS)*

Ger 101*–Elementary German I
Ger 102*–Elementary German II
Ger 201—Intermediate German I
Ger 202—Intermediate German II
Ger 203—Advanced Grammar and Composition
Ger 204—Advanced Oral German
Ger 205—Survey of Literature I
Ger 206—Survey of Literature II
Lan 301—Teaching of Modern Languages
(credited to Professional Education)

Additional courses to complete the 30 semester hours must be selected from German electives.

ELECTIVES IN GERMAN

Ger 401—The Age of Goethe
Ger 402—Contemporary German Literature
Ger 403—The German Short Story
Ger 404—Goethe
Ger 405—Scientific German
Ger 406—German Civilization
Ger 410—Honors Seminar
Ger 411—Honors Seminar

A typical sequence of courses may be obtained from the Department.

*LATIN — SPECIALIZED PREPARATION (30 HOURS)*

Lat 101*–Elementary Latin I
Lat 102*–Elementary Latin II
Lat 201—Cicero
Lat 202—Vergil
Lat 301—Teaching of Latin
(credited to Professional Education)
Lat 303—Latin Prose Composition

Additional courses to complete the 30 semester hours must be selected from electives in Latin.

ELECTIVES IN LATIN

Lat 302 The Lyric Poets
Lat 304 The Elegiac Poets
Lat 305 Reading Course
Lat 306 Roman Historians
Lat 401 Roman Drama
Lat 402 Roman Philosophy
Lat 403 Roman Satire
Lat 404 The Latin Novel
Lat 405 Medieval Latin
Lat 406 Tutorial Course

A typical sequence of courses may be obtained from the Department.

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* Foreign language majors receive no credit toward graduation for 101 and 102 except in the case of students who, having completed their language requirements in their major, take the 101 and/or 102 level(s) of a second foreign language as free elective(s).

### *RUSSIAN — SPECIALIZED PREPARATION (30 HOURS)*

Rus 101*–Elementary Russian I
Rus 102*–Elementary Russian II
Rus 201—Intermediate Russian I
Rus 202—Intermediate Russian II
Rus 203—Advanced Grammar and Composition
Rus 204—Advanced Oral Russian
Rus 205—Advanced Readings I
Rus 206—Advanced Readings II
Lan 301—Teaching of Modern Languages
(credited to Professional Educotion)

Additional courses to complete the 30 semester hours must be selected from electives in Russian.

ELECTIVES IN RUSSIAN

Rus 303 Scientific Russian I
Rus 304 Scientific Russian II
Rus 401 The Russian Novel
Rus 402 The Russian Drama
Rus 410 Honors Seminar
Rus 411 Honors Seminar

A typical sequence of courses may be obtained from the Department.

### *SPANISH — SPECIALIZED PREPARATION (30 HOURS)*

Spa 101*–Elementary Spanish I
Spa 102*–Elementary Spanish II
Spa 201—Intermediate Spanish I
Spa 202—Intermediate Spanish II
Spa 203—Advanced Grammar and Composition
Spa 204—Advanced Oral Spanish
Spa 205—Survey of Literature (Golden Age)
Spa 206—Survey of Literature (Since 1800)
Lan 301—Teaching of Modern Languages
(credited to Professional Education)

Additional courses to complete the 30 semester hours must be selected from electives in Spanish.

ELECTIVES IN SPANISH

Spa 304 Spanish Civilization
Spa 401 Spanish-American Literature
Spa 402 Contemporary Spanish Literature
Spa 403 The Spanish "Comedia"
Spa 404 The Picaresque Novel
Spa 410 Honors Seminar
Spa 411 Honors Seminar

A typical sequence of courses may be obtained from the Department.

COURSES COMMON TO ALL LANGUAGES

Lan 301 Teaching of Modern Languages
Lan 302 Applied Linguistics
Lan 303 Foreign Languages in the Elementary School
Lan 340 Introduction to Linguistics
Lan 360 [also Phi 360] Philosophy of Language
Lan 380 Language and Culture

* Foreign language majors receive no credit toward graduation for 101 and 102 except in the case of students who, having completed their language requirements in their major, take the 101 and/or 102 level(s) of a second foreign language as free elective(s).

## GREEK AND ITALIAN

The following courses in Greek and Italian are offered, but no major or minor field is available.

### GREEK

Gre 101 Beginning Greek I
Gre 102 Beginning Greek II
Gre 201 Intermediate Greek I
Gre 202 Intermediate Greek II

### ITALIAN

Ita 101 Elementary Italian I
Ita 102 Elementary Italian II
Ita 201 Intermediate Italian I
Ita 202 Intermediate Italian II

## THE JUNIOR YEAR ABROAD PROGRAM

The following courses in French are offered at the University of Montpellier, France, under the Junior Year Abroad Program sponsored by West Chester State College. The program is designed for prospective teachers of French in order to give them a firsthand acquaintance with French life and enable them to achieve a native command of the language.

The program is open to any student enrolled in a Pennsylvania college or university who has completed the equivalent of two years of college French and is able to take lectures in French. During the time the student is enrolled in the program, he is a student of West Chester State College and will receive a minimum of 30 credits for a full two semesters of college work after successful completion of the year-abroad program of studies. Each course runs for two semesters and is conducted entirely in French by French professors.

### COURSE OFFERINGS

Fre 361-62 Advanced Grammar and Composition
Fre 363-64 Advanced French Conversation
Fre 365-66 Phonetics and Translation
Fre 367-68 Contemporary French Civilization
Fre 369-70 Literary Studies

# DEPARTMENT OF PHILOSOPHY

DR. CLAGHORN, *Chairman*

**PROFESSORS**
CLAGHORN
PLATT

**ASSOCIATE PROFESSORS**
RIUKAS
STRUCKMEYER

**ASSISTANT PROFESSORS**
BANYACSKI
CRODDY
KAPUNAN

**INSTRUCTOR**
WILLIAMS

## BACHELOR OF ARTS

### Philosophy

Philosophy aims to familiarize the student with our intellectual heritage, to promote clear thinking, and to encourage an understanding of other people. As philosophy analyzes and relates many disciplines, it is general education in the broadest sense. The philosophy major is standard preparation for opportunities in business and industry, particularly in connection with computers. It leads also to government posts dealing with personnel, problem-solving, and work with other cultures. Philosophy is recommended for pre-law and pre-seminary students. This program opens the way to graduate work and to careers in college teaching.

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

II Arts and Letters Core Requirements - - 18 Semester Hours

See Page 78.

III Philosophy Concentration Requirements - - 39 Semester Hours

Phi 470—History of Philosophy, Ancient
Phi 472—History of Philosophy, Modern
Phi 498—Seminar in Ancient Philosophy
Phi 499—Seminar in Modern Philosophy
(Plus 27 hours chosen under advisement; Phi 374, 380, 490 recommended.)

**IV Electives - - - - - - - - - 9 Semester Hours**

A typical sequence of courses may be obtained from the Department.

## OFFERINGS IN PHILOSOPHY

Phi 280 Introduction to Philosophy
Phi 360 Philosophy of Language
Phi 374 Aesthetics
Phi 380 Ethics
Phi 461 Indian Thought
Phi 462 Chinese and Japanese Thought
Phi 463 History of Hebrew Thought
Phi 464 History of Islamic Thought
Phi 465 History of Christian Thought
Phi 470 History of Philosophy, Ancient
Phi 471 History of Philosophy, Medieval
Phi 472 History of Philosophy, Modern
Phi 475 Nineteenth Century Philosophy
Phi 483 Philosophy of History
Phi 484 American Philosophy
Phi 485 Contemporary Philosophy
Phi 486 Philosophy of Religion
Phi 487 Philosophy of Science
Phi 488 Theory of Knowledge
Phi 490 Logic
Phi 491 Advanced Logic
Phi 498 Seminar in Ancient Philosophy
Phi 499 Seminar in Modern Philosophy

## DEPARTMENT OF SPEECH AND THEATRE

DR. MOREHOUSE, *Chairman*

| PROFESSORS | ASSOCIATE PROFESSORS | ASSISTANT PROFESSORS |
|---|---|---|
| GRIFFITH | BERKOWITZ | CASAGRANDE |
| HAYES | COPE | EBERHART |
| MOREHOUSE | JACOBS | HALL |
| | PEREGO | HASHIMOTO |
| | PETERSON | KEEFE |
| | SUPPAN | MARTEL |
| | | MAXWELL |
| | | MEISWINKEL |

The aims of the Department of Speech and Theatre are to develop the student into an independent, responsible, and effective citizen by enabling him to grasp the nature and scope of the communicative process and to assist him to master the skills of oral communication and the performing arts. All four of the Department's degree programs have certain courses in common. Beyond these it is possible to develop curricular and co-curricular programs emphasizing one of three areas: speech, theatre, or speech pathology and audiology. The last of these areas is a special-education discipline equipping the student to teach the speech and hearing handicapped in the elementary and secondary schools of the Commonwealth.

### BACHELOR OF ARTS DEGREE

#### A. Speech Arts

Candidates for the B.A. degree in Speech Arts must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bor on margin.)

II Arts and Letters Core Requirements - - 18 Semester Hours

See Page 78.

### III Speech Arts Concentration Requirements - 39 Semester Hours

Sph 101—Fundamentals of Speaking
(credited to General Requirements)
Sph 102—Advanced Public Speaking
Sph 103—Discussion
Sph 105—Voice and Diction
Sph 201—Public Address
Sph 204—General Semantics
Sph 305—History of Rhetorical Theory: Classical
ThA 101—Introduction to the Theatre
ThA 105—Oral Interpretation
SpP 201—Introduction to Speech Problems

Additional courses, as advised, from the offerings of the Department of Speech and Theatre—12 semester hours.

### IV Electives - - - - - - - - - 9 Semester Hours

A typical sequence of courses may be obtained from the Department.

## B. Theatre Arts

Candidates for the B.A. degree in Theatre Arts must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

### I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

### II Arts and Letters Core Requirements - - 18 Semester Hours

See Page 78.

### III Theatre Arts Concentration Requirements - 40 Semester Hours

ThA 100—Theatre Practice
ThA 101—Introduction to Theatre
ThA 103—Beginning Acting
ThA 105 Oral Interpretation
(credited to General Requirements)
ThA 204—Stagecraft and Production Management
ThA 301—Play Direction
ThA 308—History of the Theatre to 16th Century
ThA 309—History of the Theatre, 16th Century to Present
Sph 103—Discussion
Sph 401—Psychology of Speech
Lit 332—English Drama to 1642
*Choose two Literature courses from the following*:
Lit 355—Modern British Drama
Lit 356—Modern Continental Drama
Lit 357—Modern American Drama
PEd 341—Modern Dance I
PEd 342—Modern Dance II
(341-342 credited to General Requirements)
Electives in Theatre Arts as advised.

### IV Electives - - - - - - - - - 11 Semester Hours

A typical sequence of courses may be obtained from the Department.

## B.S. IN EDUCATION

### A. Speech and Theatre

A student may qualify for the Pennsylvania Instructional I Certificate in Speech and Theatre by completing a minimum field requirement of 33 semester hours. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed in four areas as follows:

**I General Requirements - - - - - 56 Semester Hours**

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

**II Professional Education Requirements - - 28 Semester Hours**

(See School of Education—locate by leafing to black bar on margin.)

**III Specialized Preparation - - - - - 33 Semester Hours**

Sph 101—Fundamentals of Speaking
(credited to General Requirements)
Sph 103—Discussion
Sph 105—Voice and Diction
Sph 201—Public Address
Sph 203—Argumentation and Debate
ThA 101—Introduction to Theatre
ThA 103—Beginning Acting
ThA 105—Oral Interpretation
ThA 206—Educational Theatre Production
ThA 301—Play Direction
SpP 201—Introduction to Speech Problems
Sph 401—Psychology of Speech
Sph 402—Teaching Speech and Drama
(credited to Professional Education)

**IV Electives - - - - - - - - - 11 Semester Hours**

A typical sequence of courses may be obtained from the Department.

### B. Speech Pathology and Audiology

A student may qualify for the Pennsylvania Instructional I Certificate in Teaching the Speech and Hearing Handicapped—allowing him to teach the subject in the elementary and secondary schools of the Commonwealth—by completing a minimum field requirement of 38–40 hours. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

**I General Requirements - - - - - 56 Semester Hours**

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

## II Professional Education - - - - - 32 Semester Hours

EdA 241—Psychology of Exceptional Children 3
EdF 100—School and Society 3
EdP 250—Psychology of Learning and Development 3
EdP 351—Evaluation and Measurement 2
Field Experience in Education (K–12) 3
EdS 412—Student Teaching including Practicum 12
Psy 370—Mental Hygiene 3
SpP 402—Methods in Teaching the Speech and Hearing Handicapped 3

## III Specialized Preparation - - - - 38-40 Semester Hours

Sph 100—Bases of Speech
Sph 106—Introduction to Phonetics
SpP 170—Speech and Language Development
SpP 202—Speech Pathology I
SpP 203—Speech Pathology II
SpP 301—Introduction to Audiology
SpP 303—Clinical Practicum (4-6 s.h.)
SpP 304—Auditory Training and Speech Reading
SpP 305—Audiometry
SpP 403—Clinical Principles in Speech and Hearing
SpP 404—Inter-Professional Seminar in Speech and Hearing
Bio 100—Basic Biological Science (credited to General Requirements)
Bio 260—Anatomy of Speech and Hearing Mechanisms (credited to General Requirements)
Mat 121—Statistics
Phy 110—Acoustics for Speech and Hearing

## IV Electives - - - - - - - - - 0-2 Semester Hours

A typical sequence of courses may be obtained from the Department.

Offerings of the Department are shown below.

### Other Programs in Special Education

In addition to the degree program delineated above, West Chester offers two other opportunities for study in the area of special education. Both lead to certification—one for teaching the mentally retarded and the other for teaching the physically handicapped. See *Certification Programs in Special Education* under School of Education.

## OFFERINGS IN SPEECH AND THEATRE

### SPEECH

Sph 100 Bases of Speech
Sph 101 Fundamentals of Speaking
Sph 102 Advanced Public Speaking
Sph 103 Discussion
Sph 105 Voice and Diction
Sph 106 Introduction to Phonetics
Sph 201 Public Address
Sph 203 Argumentation and Debate
Sph 204 General Semantics
Sph 230 Business and Professional Speech Communication
Sph 303 Advanced Argumentation and Debate
Sph 305 History of Rhetorical Theory: Classical
Sph 306 History of Rhetorical Theory: Medieval to Modern
Sph 401 Psychology of Speech
Sph 402 Teaching Speech and Drama
Sph 403 Persuasion

### SPEECH PATHOLOGY AND AUDIOLOGY

SpP 000 Remedial Speech
SpP 170 Speech and Language Development
SpP 201 Introduction to Speech Problems
SpP 202 Speech Pathology I
SpP 203 Speech Pathology II
SpP 301 Introduction to Audiology
SpP 303 Clinical Practicum
SpP 304 Auditory Training and Speech Reading
SpP 305 Audiometry
SpP 402 Methods in Teaching the Speech and Hearing Handicapped
SpP 403 Clinical Principles in Speech and Hearing
SpP 404 Inter-Professional Seminar in Speech and Hearing

### THEATRE ARTS

ThA 100 Theatre Practice
ThA 101 Introduction to the Theatre
ThA 103 Beginning Acting
ThA 104 Introduction to Technical Production
ThA 105 Oral Interpretation
ThA 201 Stage Makeup
ThA 202 Television Production Techniques
ThA 203 Intermediate Acting
ThA 204 Stagecraft and Production Management
ThA 205 Advanced Oral Interpretation
ThA 206 Educational Theatre Production
ThA 207 Creative Dramatics
ThA 301 Play Direction
ThA 302 Directing and Producing the Instructional Television Program
ThA 304 Scene Design
ThA 305 Stage Costuming
ThA 307 Stage Lighting
ThA 308 History of the Theatre to the 16th C.
ThA 309 History of the Theatre, 16th C. to the Present
ThA 310 History and Aesthetics of the Oriental Theatre
ThA 401 Advanced Directing
ThA 402 Directing and Producing the Dramatic Television Program
ThA 403 Advanced Acting
ThA 404 Advanced Scene Design

## INTERDISCIPLINARY PROGRAMS

West Chester offers three interdisciplinary programs: American Studies, Latin-American Studies, and Russian Studies. All lead to the Bachelor of Arts degree.

The curricula for these three programs are fully outlined under School of Social and Behavorial Sciences (see Interdisciplinary Programs in index for page). Further information may be obtained from either the Dean of the School of Arts and Letters or the Dean of the School of Social and Behavioral Sciences.

### Interdisciplinary Course Offering

An interdisciplinary course (Hum 400—The Contemporary Arts: An Aesthetics Approach) is given under the School of Arts and Letters. Open to juniors and seniors, the course is a team-teaching experience drawing on the College's resources in dance, music, art, literature, and drama. (See English course descriptions.)

COLLEGE AV

# School of Education

Harold W. Benda, *Dean*
John A. Lander, *Assistant Dean*
Michael F. Bannon, *Associate Dean for Graduate Studies*

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## Department of Elementary Education

Charlotte E. King, *Chairman*
Carlos R. Ziegler, *Assistant Chairman*

**PROFESSORS**
KING
ROSS

**ASSOCIATE PROFESSORS**
CHARRY
GOOD, CHARLOTTE
HAAS
HABECKER
HERRES
KULP
MURPHY
PETA
SHUR
ZIEGLER

**ASSISTANT PROFESSORS**
CHERN
DUNLAP
GIBSON
HASSELQUIST
PETKOFSKY

**INSTRUCTOR**
MORGAN

## Department of Secondary Education and Professional Studies

Walter N. Ridley, *Chairman*

**PROFESSORS**
BANNON
BENDA
LANDER
RIDLEY
THOMAS

**ASSOCIATE PROFESSORS**
BARTH
BUECHELE
CLEARY
FRANCELLA
GLEOCKLER
GROSS
KIPP
McCLURE
PAGANELLI
PATTERSON
RECKTENWALD

**ASSISTANT PROFESSORS**
BUSH
McKENDRY (PART-TIME)
SCHURR (PART-TIME)
TREADWELL

## Department of Counselor Education

Julian M. Swiren, *Acting Chairman*

**PROFESSOR**
HILL

**ASSOCIATE PROFESSORS**
CLARK
GOTTSHALL
GREENBERG
RAHN
RECKTENWALD
SWIREN

## Department of Instructional Media Education

Richard P. Weagley, *Chairman*

**PROFESSORS**
McTAVISH
STRAYER
WEAGLEY

**ASSOCIATE PROFESSORS**
REDMOND
SPIECKER

**ASSISTANT PROFESSORS**
REIS
STEINMETZ

### Special Education

Howard Freeman, *Coordinator*

ASSOCIATE PROFESSOR
FREEMAN

ASSISTANT PROFESSOR
NICKLES (PART-TIME)

### Urban Education

F. William Leeds, *Coordinator*

ASSOCIATE PROFESSOR
LEEDS

### Laboratory School

Gerald B. Cartright, *Principal*

ASSOCIATE PROFESSOR
CARTRIGHT

ASSISTANT PROFESSORS
GRAFTON
PRITCHARD

INSTRUCTORS
FINKEL
McCOACH
MORGAN
REED
WILSON

### Student Teaching Program

Mark M. Evans, *Director*

PROFESSOR
EVANS

ASSOCIATE PROFESSORS
BRICE
BROWN
DEISCHER
GERMAN
GOOD, CHARLES
HOGGARD
HOLINGJAK
JACECKO
LEE
LEWIS
TALLEY
WALTERS

ASSISTANT PROFESSORS
HASSELQUIST
JONES
MORGANTHAL

INSTRUCTOR
HAYDEN

[The School of Health and Physical Education and the School of Music assist the Student Teaching Program by providing faculty for supervision in their respective special skills.]

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THE SCHOOL OF EDUCATION, working cooperatively with the total College community, assumes the responsibility for providing the prospective teacher with the technical knowledge and skills, supported by laboratory experiences, to be used in his profession; and with the social, ethical, and professional attitudes necessary for success in teaching.

## DEPARTMENT OF ELEMENTARY EDUCATION

Charlotte E. King, *Chairman*

The elementary education curriculum is designed to provide a broad background of general education, an understanding of children, and the knowledge and skills needed to teach all aspects of the elementary school program. There is no major or minor field in this curriculum, but students must meet the State requirements for an *area of interest* (formerly described as *area of concentration*). Upon satisfactory completion of the approved program in elementary education, the student will qualify for a Pennsylvania Instructional I Teaching Certificate (formerly the College Provisional Certificate). This certificate will be valid for teaching for three years in the nursery school, kindergarten, and grades one through six.

Students desiring specific certification in grades four through eight are advised to consult with the Chairman of the Department of Elementary Education.

### B.S. IN EDUCATION DEGREE

Candidates for the B.S. in Education must complete a minimum of 128 semester hours, distributed among the following four areas:

I General Requirements - - - - - 56 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

Note that the specific courses which meet General Requirements in the elementary education curriculum are shown in the typical course sequence at the end of this Department of Elementary Education section.

II Professional Education - - - - - 22 Semester Hours

EDF 100—School and Society (3)
EdP 250—Psychology of Learning and Development (3)
EDM 300—Audio-Visual Education (2)
EdP 351—Evaluation and Measurement (2)
EdE 411—Student Teaching and Practicum (12)

## III Specialized Preparation - - - - 37 Semester Hours

Art 251—Art in the Elementary School I (3)
EdE 251—Human Development Childhood (3)
Mus 231—Music for the Primary Grades (3) *or* Mus 232—Music for the Intermediate Grades (3)
PEd 201—Practice and Theory in Elementary Physical Education (1) (credited to General Requirements)
PEd 202—Dance Activities in the Elementary Program (1)
Sci 250—Science for the Elementary Grades (3)
SpP 201—Introduction to Speech Problems (3)
EdE 305—Field Experience in Elementary Education (1)
EdE 309—Language Arts in the Elementary School (6) *or*, with departmental approval, EdE 317—Oral and Written Expression in the Elementary School (3) *and* EdE 319—Reading in the Elementary School (3)
EdE 332—Teaching Social Studies in the Elementary School (3)
HEd 350—Health for the Elementary Grades (3)
Lit 350—Children's Literature (3)
Mat 351—Teaching Mathematics in Elementary Schools (3)
EdE 401—Current Trends in Elementary Education (2)

## IV Electives - - - - - - - - 13-21 Semester Hours

In order to meet the State requirement for concentrated study in a specific field and to earn part or all of the elective credits required for graduation, elementary education majors must select an area of interest from the list below. This is not a minor field; except for foreign language and special education, it does not add any field to the teaching certificate. All electives, whether part of an area of interest or not, should be selected under advisement by the department involved.

## Requirement for Transfer Students

All transfer students whose major field is elementary education must complete a minimum of six s.h. in EdE courses at West Chester prior to undertaking their student-teaching semester. This requirement must be met even if all courses listed under Specialized Preparation were completed at another institution.

# AREAS OF INTEREST

## ART — 24 s.h.

*Elementary Education Curriculum Requirements* (6 s.h.)
Art 101—Fine Arts (Art)
Art 251—Art in the Elementary School I
*Area of Interest Requirements* (6 s.h.)
Art 252—Art in the Elementary School II
Art 266—Crafts: Three-Dimensional Media for Elementary Education
*Electives* (12 s.h.)
Art courses, chosen under advisement

## EARLY CHILDHOOD EDUCATION — 27 s.h.

*Elementary Education Curriculum Requirements* (9 s.h.)
EdE 251—Human Development: Childhood
EdE 309—Language Arts in the Elementary School
*Area of Interest Requirements* (12 s.h.)
EdE 302—Field Experience in Early Childhood Education
EdE 403—Early Childhood Education I
EdE 404—Early Childhood Education II
Soc 231—Introduction to Sociology
*Electives* (6 s.h.)
Selected under advisement from the following groups:
A. *Creative Expression* (3 s.h.)
EdE 303—Creativity in the Classroom
ThA 207—Creative Dramatics
B. *Society and Culture* (3 s.h.)
Ant 231—Introduction to Anthropology
EdU 360—The Culturally Disadvantaged Child
EdU 361—Teaching in Urban Schools
Soc 332—Contemporary Social Problems
Soc 333—The Family
Soc 335—Racial and Cultural Minorities

## ENGLISH — 26 s.h.

*Elementary Education Curriculum Requirements* (20 s.h.)
Eng 101—English Composition I
Eng 102—English Composition II
Sph 101—Fundamentals of Speaking
Lit 121—General Literature I
Lit 122—General Literature II
Lit 350—Children's Literature
SpP 201—Introduction to Speech Problems
*Electives* (6 s.h.)
2 electives in English

## ENGLISH AND FOREIGN LANGUAGES — 26 s.h.

*Elementary Education Curriculum Requirements* (14 s.h.)
Eng 101—English Composition I
Eng 102—English Composition II
Sph 101—Fundamentals of Speaking
Lit 121—General Literature I
Lit 122—General Literature II
*Electives*
12 s.h. in a foreign language beyond the 101-102 level.
Note: See Department of Foreign Languages before scheduling language courses.

## EXPRESSIVE LANGUAGE ARTS 24 s.h.

*Elementary Education Curriculum Requirements* (11 s.h.)

Eng 101—English Composition I
Eng 102—English Composition II
Sph 101—Fundamentals of Speaking
SpP 201—Introduction to Speech Problems

*Area of Interest Requirements* (6 s.h.)

ThA 105—Oral Interpretation
ThA 207—Creative Dramatics

*Electives* (7 s.h.)

Courses in English, Speech, and Theatre Arts, selected under advisement

## GEOGRAPHY 21 s.h.

*Elementary Education Curriculum Requirements* (6 s.h.)

Geo 101—World Geography
EdE 332—Teaching Social Studies in the Elementary School

*Area of Interest Requirements* (3 s.h.)

Geo 202—Geography of the U.S. and Canada *or*
Geo 314—Geography of the U.S. and Pennsylvania

*Electives* (12 s.h.)

Selected under advisement.

The following are most suitable:
Geo 100—Physical Geography
Geo 201—Conservation of Natural Resources
Geo 203—Economic Geography
Geo 204—Geography of Pennsylvania
Geo 207—Geography of Europe
Geo 208—Geography of Latin America

## HEALTH AND PHYSICAL EDUCATION 24 s.h.

*Elementary Education Curriculum Requirements* (8 s.h.)

PEd 101—Physical Activities I
PEd 201—Practice and Theory in Elementary Physical Education
PEd 202—Dance Activities in the Elementary Program
HEd 150—Health
HEd 350—Health for the Elementary Grades

*Area of Interest Requirements* (13 s.h.)

PEd 261—History and Philosophy of Physical Education
PEd 365—Physical Activities for Atypical Children I
PEd 465—Elementary Physical Education Curriculum
PEd 466—Self-Testing Activities in Elementary School Physical Education
HEd 253—The School Health Program
HEd 353—First Aid for Teachers

*Electives* (3 s.h.)

Selected under advisement from the following:
PEd 130—Aquatic Fundamentals (Men)
or
PEd 131—Aquatic Fundamentals (Women)
PEd 341—Modern Dance I
PEd 355—Kinesiology
PEd 367—Arts and Crafts in Recreation
PEd 370—Camping and Outing
PEd 481—Education for Safe Living
HEd 356—Family Life Education
HEd 357—Community Health

## HISTORY — 24 s.h.

*Elementary Education*
*Curriculum Requirements* (9 s.h.)

His 101—History of Civilization I
His 102—History of Civilization II
His 211—History of U.S. I

*Area of Interest Requirements* (3 s.h.)

His 212—History of U.S. II

*Electives* (12 s.h.)

Selected under advisement
from the following groups:

A. *American History* (3 s.h.)

His 313—History of Pennsylvania
His 316—History of the American Frontier
His 317—History of American Science and Technology
His 319—Social and Cultural History of the U.S.
His 320—History of the South
His 339—History of the Afro-American

B. *European History* (3 s.h.)

His 219—Medieval Europe
His 331—History of England to 1688
His 332—History of England since 1688
His 340—Modern Germany
His 350—Russian History to 1917
His 351—Soviet Russia

C. *World and Regional History* (6 s.h.)

His 218—The Ancient World
His 322—History of South Asia
His 323—History of the Middle East
His 325—History of the Twentieth Century World
His 328—History of Modern Africa
His 329—History of East Asia
His 333—History of Latin America to 1825
His 334—History of Latin America since 1825

## MATHEMATICS — 24 s.h.

*Elementary Education*
*Curriculum Requirements* (6 s.h.)

Mat 101—Introduction to College Mathematics I
Mat 351—Teaching Mathematics in Elementary Schools

*Area of Interest Requirements* (9 s.h.)

Mat 102—Introduction to College Mathematics II
Mat 311—Algebra for Elementary Teachers
Mat 331—Geometry for Elementary Teachers

*Electives* (9 s.h.)

Selected under advisement
from the following:

Mat 105—College Algebra and Trigonometry
Mat 106—Foundations of Mathematics
Mat 121—Statistics
Mat 141—Calculus I
Mat 142—Calculus II
Mat 211—Linear Algebra
Mat 231—Concepts of Euclidean Geometry
Mat 401—History of Mathematics

## MUSIC — 24 s.h.

*Prerequisites*: Music qualifying tests and approval by the School of Music.

MUSIC HISTORY (6 s.h.)

Mus 221—Music in Western Civilization I
(in place of Mus 121)
Mus 222—Music in Western Civilization II

THEORY OF MUSIC (6 s.h.)
Mus 111—Foundations of Music
Mus 113—Sight Singing I

PROFESSIONAL EDUCATION (6 s.h.)
Mus 331—Elementary Music Methods
(in place of Mus 231 or Mus 232)
Mus 334—Teaching Music Appreciation in the Elementary Grades

APPLIED MUSIC (6 s.h.)
Performance Area [individual lessons] (3 s.h.)
Voice [individual lessons] (1 s.h.)
Musical Organization (1 s.h.)
Elective (1-2 s.h.)

## PSYCHOLOGY 23 s.h.

*Elementary Education Curriculum Requirements* (11 s.h.)

Psy 100—Introduction to Psychology
EdP 250—Psychology of Learning and Development
EdE 251—Human Development: Childhood
EdP 351—Evaluation and Measurement

*Electives* (12 s.h.)
4 courses in psychology

## SCIENCES 26 s.h.

*Elementary Education Curriculum Requirements* (11 s.h.)

Bio 100—Basic Biological Science
Sci 150—Basic Physical Science
Sci 250—Science for the Elementary Grades

*Electives* (15 s.h.)
Selected under advisement from the following groups:

A. *Biological Science*
Bio 210—Field Botany
Bio 241—Field Zoology
Bio 242—Ornithology
Bio 300—Basic Genetics
Bio 303—Basic Ecology
Bio 340—Basic Entomology
Bio 355—Wildlife Conservation

B. *Physical Science*
Sci 251—Matter and Energy
ESS 101—Earth Science
ESS 111—General Astronomy
ESS 201—Physical Geology

## SOCIAL SCIENCES 24 s.h.

*Elementary Education Curriculum Requirements* (18 s.h.)

Geo 101—World Geography
His 101—History of Civilization I
His 102—History of Civilization II
His 211—History of U.S. I
PSc 231—American Government
EdE 332—Teaching Social Studies in the Elementary School

*Electives* (6 s.h.)
2 courses (1 in sociology, the other in economics)

## SPECIAL EDUCATION 25 s.h.

*Elementary Education Curriculum Requirements* (14 s.h.)

Art 251—Art in the Elementary School I
Psy 100—Introduction to Psychology
EdP 250—Psychology of Learning and Development

EdE 251—Human Development: Childhood
EdP 351—Evaluation and Measurement

*Elective Areas* (11 s.h. each)
(Choose either field)

*Teaching the Mentally Retarded*
EdA 241—Psychology of Exceptional Children
EdA 243—Psychology of the Mentally Retarded
EdA 344—Problems in Special Education
*or*
EdA 348—Curriculum and Methods for the Mentally Retarded

*Teaching the Physically Handicapped*
EdA 241—Psychology of Exceptional Children
EdA 349—Curriculum and Methods for the Physically Handicapped
PEd 390—Physical Disabilities of Childhood
PEd 391—Psychology of the Physically Handicapped

## TEACHING THE SPEECH AND HEARING HANDICAPPED 21 s.h.

*Area of Interest Requirements*
Sph 100—Bases of Speech
Sph 106—Introduction to Phonetics
SpP 170—Speech and Language Development
SpP 202—Speech Pathology I
(SpP 201—Introduction to Speech Problems [required in the Elementary Curriculum] may be substituted with the instructor's permission.)
SpP 203—Speech Pathology II
SpP 301—Introduction to Audiology
SpP 303—Clinical Practicum (3 s.h.)

## URBAN EDUCATION 24 s.h.

*Elementary Education Curriculum Requirements* (9 s.h.)
EdF 100—School and Society
EdP 250—Psychology of Learning and Development
EdE 251—Human Development: Childhood

*Area of Interest Requirements* (12 s.h.)
Soc 231—Introduction to Sociology
Soc 335—Racial and Cultural Minorities
EdU 360—The Culturally Disadvantaged Child
EdU 361—Teaching in Urban Schools

*Elective* (3 s.h.)
Soc 332—Contemporary Social Problems
Soc 333—The Family
Soc 334—Juvenile Delinquency
Soc 336—Urban Sociology
Soc 340—Introduction to Social Work
Eco 333—Consumer Economics
His 339—History of the Afro-American
Lit 340—Minority Cultures in American Literature
Psy 354—Social Psychology

## TYPICAL COURSE SEQUENCE IN THE ELEMENTARY EDUCATION CURRICULUM

(The sequence of courses is subject to change for administrative reasons.)

### FRESHMAN YEAR

| | *Semester Hours* |
|---|---|
| Art 101—Fine Arts (Art) | 3 |
| Bio 100—Basic Biological Science | 4 |
| Eng 101—English Composition I | 3 |
| Eng 102—English Composition II | 3 |
| Geo 101—World Geography | 3 |
| HEd 150—Health | 2 |
| Mat 101—Introduction to College Mathematics I | 3 |
| Mus 121—Fine Arts (Music) | 3 |
| PEd 101—Physical Activities I | 1 |
| Psy 100—Introduction to Psychology | 3 |
| Sci 150—Basic Physical Science | 4 |
| Sph 101—Fundamentals of Speaking | 2 |
| | 34 |

(All courses shown for the Freshman Year are credited to General Requirements)

### SOPHOMORE YEAR

| | *Semester Hours* |
|---|---|
| Art 251—Art in the Elementary School I | 3 |
| EdF 100—School and Society | 3 |
| EdP 250—Psychology of Learning and Development | 3 |
| His 101—History of Civilization I | 3 |
| His 102—History of Civilization II | 3 |
| (101-102 credited to General Requirements) | |
| Lit 121—General Literature I | 3 |
| Lit 122—General Literature II | 3 |
| (121-122 credited to General Requirements) | |
| Mus 231—Music for the Primary Grades *or* | |
| Mus 232—Music for the Intermediate Grades | 3 |
| PEd 201—Practice and Theory in Elementary Physical Education | 1 |
| (credited to General Requirements) | |
| PEd 202—Dance Activities in the Elementary Program | 1 |
| SpP 201—Introduction to Speech Problems | 3 |
| Elective | 3 |
| | 32 |

### JUNIOR YEAR

| | *Semester Hours* |
|---|---|
| EdE 251—Human Development: Childhood | 3 |
| EdE 305—Field Experience in Elementary Education | 1 |
| EdE 309—Language Arts in the Elementary School | 6 |
| EdE 332—Teaching Social Studies in the Elementary School | 3 |
| EdM 300—Audio-Visual Education | 2 |
| HEd 350—Health for the Elementary Grades | 3 |
| His 211—History of the U.S. I | 3 |
| (credited to General Requirements) | |
| Lit 350—Children's Literature | 3 |
| Mat 351—Teaching Mathematics in Elementary Schools | 3 |
| Sci 250—Science for the Elementary Grades | 3 |
| Electives | 5 |
| | 35 |

SENIOR YEAR

| | *Semester Hours* |
|---|---|
| EdE 401—Current Trends in Elementary Education | 2 |
| EdE 411—Student Teaching and Practicum | 12 |
| EdP 351—Evaluation and Measurement | 2 |
| Phi 280—Introduction to Philosophy (credited to General Requirements) | 3 |
| PSc 231—American Government (credited to General Requirements) | 3 |
| Electives | 5 |
| | 27 |

## DEPARTMENT OF SECONDARY EDUCATION AND PROFESSIONAL STUDIES

Walter N. Ridley, *Chairman*

A major in secondary education may be earned in biology, chemistry, comprehensive science, earth and space science, English, French, geography, German, history, Latin, mathematics, physics, Russian, social studies, Spanish, and Speech and Theatre. Upon satisfactory completion of the requirements of the secondary curriculum, the student will be granted the degree of Bachelor of Science in Education by the College and will qualify for a Pennsylvania Instructional I Certificate (formerly described as the Pennsylvania Provisional Certificate). This certificate is valid for teaching the specified subject or subjects in an approved secondary school in Pennsylvania for three years. Students must choose one field of specialization.

### GENERAL REQUIREMENTS—SECONDARY EDUCATION MAJORS

Although the General Requirements of the College are primarily the same for all subject fields, certain variations are made when there is logical reason for them. The basic pattern for General Requirements may be noted in the opening pages of Programs of Study (locate by leafing to black bar on margin). To determine approved substitutions for his particular field, the secondary education major must consult the course requirements listed under the heading of his field.

### PROFESSIONAL EDUCATION— SECONDARY EDUCATION MAJORS

| Professional Education Courses | | Semester Hours |
|---|---|---|
| EdF 100 | School and Society | 3 |
| EdP 250 | Psychology of Learning and Development | 3 |
| EdM 300 | Audio-Visual Education | 2 |
| EdS 306 | Field Experience in Secondary Education | 3 |
| EdP 351 | Evaluation and Measurement | 2 |
| EdS 412 | Student Teaching for Secondary Majors, including Practicum | 12 |
| | Methods of Teaching Academic Subject | 3 |
| | Total | 28 |

## SPECIALIZATION FOR SECONDARY TEACHING

Specialization in one of the teaching fields listed below is required for graduation in secondary education. For a particular field, fulfillment of the minimum semester-hour requirement shown will satisfy the teacher certification requirement in Pennsylvania. Requirements for these fields of specialization are given under the heading of the department. (See School of Arts and Letters, School of Sciences and Mathematics, or School of Social and Behavioral Sciences.)

| Field | Minimum Semester Hours Required | Field | Minimum Semester Hours Required |
|---|---|---|---|
| Biology | 39 | German | 30 |
| Chemistry | 40 | History | 36 |
| Comprehensive English | 36 | Latin | 30 |
| Comprehensive Science | 44 | Mathematics | 36 |
| Comprehensive Social Studies | 48 | Physics | 38 |
| Earth and Space Science | 44 | Russian | 30 |
| French | 30 | Spanish | 30 |
| Geography | 30 | Speech and Theatre | 33 |

In planning his program, the secondary education major must confer frequently with his adviser. The final certification of all students whose goal is the Bachelor of Science in Education is the responsibility of the Dean of the School of Education.

## CERTIFICATION PROGRAMS IN SPECIAL EDUCATION*

Howard Freeman, *Coordinator*

Two programs in special education enable students to secure certification to teach classes for the mentally retarded or the physically handicapped. The course sequences included in the programs are offered as extensions of existing curricula and permit students to graduate with dual certification, that is, their teaching certificates will be valid for teaching in the regular classroom and in special classes for either the mentally retarded or the physically handicapped.

The program at West Chester meets the state requirements of a minimum of twelve semester hours and is so planned that regular elementary students will not find it necessary to carry an overload or attend summer sessions. Courses in special

* Each of the special education programs also constitutes an area of interest in the elementary education curriculum.

education are offered as part of the summer program, but in most cases certification should be possible without summer study.

Students working toward a degree in secondary education will receive dual certification upon completion of the Special Education courses and, in addition basic courses in the teaching of reading for the elementary grades and the teaching of mathematics for the elementary grades. In order to acquire these additional credits, it may be necessary for secondary education students to attend summer school.

*Student Teaching.* In both programs, not less than four weeks nor more than nine weeks of the regular student teaching is to be allocated to a special education station.

Special education courses are scheduled to enable students to begin the program during the second semester of their sophomore year. Students interested in teaching retarded or physically handicapped children should indicate their interest when planning their sophomore schedule, and are advised to confer with the Coordinator of Special Education. Those students who are not certain of their interest in the field may enroll in one or more of the special education courses on an exploratory basis, to determine the degree of their personal commitment to the field. If the program is not pursued further, the courses will serve as elective credits in other curricula.

Students wishing to explore these programs should consult with the Coordinator of Special Education, Special Education Building.

## Program for Teaching the Mentally Retarded

| *Prerequisite: Psy 100 Introduction to Psychology* | Semester Hours |
|---|---|
| EdA 241—Psychology of Exceptional Children | 3 |
| EdA 243—Psychology of the Mentally Retarded | 3 |
| EdA 344—Problems in Special Education | 2 |
| EdA 348—Curriculum and Methods for the Mentally Retarded | 3 |
| Art 251—Art in the Elementary School I (required for all elementary education majors) | 3 |
| | 14 |

*Note*: The first four courses should be taken in order shown.

## Program for Teaching the Physically Handicapped

| *Prerequisite: Psy 100 Introduction to Psychology* | Semester Hours |
|---|---|
| EdA 241—Psychology of Exceptional Children | 3 |
| PEd 390—Physical Disabilities of Childhood | 2 |
| PEd 391—Psychology of the Physically Handicapped | 3 |
| EdA 349—Curriculum and Methods for the Physically Handicapped | 3 |
| Art 251—Art in the Elementary School I (required for all elementary education majors) | 3 |
| | 14 |

*Note*: The first four courses should be taken in order shown.

## DEGREE PROGRAM IN SPECIAL EDUCATION

In the area of special education, West Chester also has a degree program which leads to the B.S. in Education in *Speech Pathology and Audiology*. The program qualifies the student for the Pennsylvania Instructional I Certificate in Teaching the Speech and Hearing Handicapped, permitting him to teach in this area of special education in the elementary and secondary schools of the Commonwealth. The degree requirements are stated under the Department of Speech and Theatre, which provides the specialized preparation for the field. Students interested in the speech pathology and audiology program are invited to consult with the Chairman of the Department of Speech and Theatre.

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## URBAN EDUCATION PROGRAM

F. William Leeds, *Coordinator*

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West Chester offers a special program which strengthens the preparation of teachers who wish to work in the schools of the inner cities, where the need for skilled teachers is acute.

The prospective urban teacher needs both carefully planned college courses and equally well planned experience in the schools. Because of the complexity of urban civilization and the diversity of the persons and situations he deals with, the urban teacher should have a particularly rich background in both the liberal arts and professional studies.

The urban education program does not provide additional certification and does not vary essentially from the normal requirements for either the elementary or the secondary major. However, the student who undertakes the program is required to take at least half of his student teaching in the urban school. He must also take a special core of course work related to teaching in the inner city.

Elementary education majors incorporate the urban education program into their curriculum by selecting it as their area of interest. (See *Areas of Interest* above.)

Secondary education majors who wish to consider this special preparation must first consult with the Coordinator of Urban Education. Unless the requirements for their field are unusually heavy, they are generally able to fit the urban education core into their curriculum without going beyond the 128 hours required for graduation.

# School of Health and Physical Education

Edwin L. Youmans, *Interim Dean*
Edward N. Norris, *Acting Associate Dean for Graduate Studies*
Edwin B. Cottrell, *Assistant to the Dean*

Walter E. Funk, *Chairman, Department of Health Education*
Melvin M. Lorback, *Chairman, Department of Physical Education*
Robert W. Reese, *Director of Athletics*
Barbara J. Coates, *Coordinator of Women's Activities*
Alvin B. Davis, *Coordinator of Student Teaching*

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**PROFESSORS**

COCHRAN
COTTRELL
MITTEN
NORRIS
OWENS
STURZEBECKER
YOUMANS
YOUNG

**ASSOCIATE PROFESSORS**

BALDWIN
BRUESS
BUTLER
CHARTERS
COATES
COLLIER
DAVIS
DONLEY
FISHER
FUNK
FURLOW
GOODWIN
GREENWOOD
HUFFMAN
KOLACKI
LEMCKE
Le VEAU
LORBACK
MARGERUM
MARLEY
MARTIN
REED
REESE
SERPICO
STEINMETZ
TREZISE
WILKINSON
WINTERMUTE
YANISCH
YODER

**ASSISTANT PROFESSORS**

BONSALL
DEMPSEY
ECKMAN
GROS
HELLER
HOPKINS
LEIGHTON
PAGANO
PARKINSON
SMILEY
SMITH
STACKOWSKI (PART-TIME)
TRNKA
WOODS

**INSTRUCTORS**

ALFORD (PART-TIME)
ATTAWAY (PART-TIME)
BRETHAUER
CELAIN
CRAIG (PART-TIME)
FORSYTH
GIUNTA
JERSEY (PART-TIME)
JONES
KRAMER (PART-TIME)
MILLER (PART-TIME)
NYE
REMLEY
WEBER

**HEAD COACHES FOR MEN**

BASEBALL—KILLINGER
BASKETBALL—FUNK
CROSS-COUNTRY—BUTLER
FOOTBALL—MITTEN
GOLF—COTTRELL
GYMNASTICS—TRNKA
SOCCER—LORBACK
SWIMMING—NORRIS
TENNIS—WOODS
TRACK—YOUMANS
WRESTLING—COLLIER

**HEAD COACHES FOR WOMEN**

ARCHERY—YANISCH
BADMINTON—GREENWOOD
BASKETBALL—ECKMAN
BOWLING—HELLER
FIELD HOCKEY—GROS
GYMNASTICS—DEMPSEY
LACROSSE—GROS
SOFTBALL—WEBER
SWIMMING—LEIGHTON
TENNIS—LEIGHTON

THE SCHOOL OF HEALTH AND PHYSICAL EDUCATION at West Chester has a record of excellence and a long history; West Chester's program of coeducational physical education is one of the oldest in the United States. The first Director of Physical Training, Dr. Clyde Ehinger, was appointed in 1890.

## PROGRAMS OF STUDY

B.S. in Health and Physical Education

B.S. in Health Education

The School of Health and Physical Education offers two degree programs. One is a dual major leading to the Bachelor of Science in Health and Physical Education. The second program, for which the College received approval in the fall semester of 1969-70, leads to the Bachelor of Science in Health Education. Both programs, upon satisfactory completion, permit the student to attain the Pennsylvania Instructional I Certificate, valid for teaching the specified subject in the elementary and secondary schools of Pennsylvania for three years.

### Non-Degree Programs

The School also offers courses leading to certification in Education for Safe Living. This program includes highway and general safety education. Students who desire to prepare as recreation leaders are afforded the opportunity to elect courses in recreation and to take part in a special program in camp leadership during the summer.

The School services the total college enrollment by providing courses in physical education and a course in health education for all undergraduate students. In addition, there is a broad program of recreational activities and intramural and intercollegiate athletics for all men and women at West Chester State College.

## FACILITIES

Facilities to support the programs of the School have kept pace with a rapid increase in students and faculty. A new addition, scheduled to be in use by the fall semester of 1970, is the Health and Physical Education Center on South Campus. Among its notable components are its research facilities, its multi-purpose teaching stations, and a one-acre gymnasium divisible into six separate pneumatically sealed gymnasiums. A vast complex of tennis courts and baseball, lacrosse, field hockey, soccer, and football fields will also be located on the South Campus.

## ADMISSION

All students seeking admission to the School of Health and Physical Education must meet the basic requirements of the College (see Admission to West Chester).

*Admission to the Degree Program in Health and Physical Education.* Applicants for the dual major must have participated in both physical education classes and extracurricular athletic programs in their secondary schools. A pre-admission interview, conducted by members of the School faculty, evaluates the candidate's evidence of leadership and the extent of participation in athletic programs.

*Admission to the Health Education Degree Program.* A pre-admission interview conducted by the faculty of the Department of Health Education evaluates the applicant's personal qualifications for admission.

*Transfer Students*—see "Admission of Transfer Students" and "Advanced Credit Requirement" under Admission to West Chester.

### Professional Requirements for Health and Physical Education Majors

Students pursuing the dual major in health and physical education are required to purchase uniforms. (For details, see "Additional Costs" under Expenses.) As a prerequisite for Senior Standing, students in the health and physical education major must have completed the extracurricular and sports credit requirement of the Department of Physical Education.

## MEN'S INTERCOLLEGIATE ATHLETIC PROGRAM

Because athletic activities provide situations similar to experiences in life, West Chester views, athletics as an important part of the college experience — indeed, as a facet of education. West Chester's athletic program has as its underlying purpose the development of enduring educational values. Another important phase of the athletic program is the training given to those who will later be called upon to coach. The program is administered by the School of Health and Physical Education. To permit as many men as possible to take part, the School offers a wide variety of sports activities, including football, baseball, basketball, soccer, track, wrestling, swimming, tennis, gymnastics, golf, and cross-country. Schedules are sought which, while in the College's class, measure up to the high athletic traditions and standing of West Chester. It is the College's policy to give its athletic program an important place in college life, with an emphasis in proportion to the value of the program.

West Chester is a member of the National Collegiate Athletic Association, the Middle Atlantic States Collegiate Athletic Conference, the I.C.4A., the Pennsylvania State College Athletic Conference, and a charter member of the Eastern Collegiate Athletic Conference.

Along with wide opportunities for participation, West Chester has excellent facilities and equipment, and when its new health and physical education center is completed, the College will have one of the ranking settings for training and research in health and physical education. All coaches are members of the faculty.

### Men's Intramural Athletics

Out of awareness that an athletic program is not educationally justified if confined to intercollegiate competition, West Chester provides a variety of athletic activities which are available to all students. Such sports as touch football, swimming, soccer, tennis, basketball, track, softball, and volleyball are conducted for men.

## WOMEN'S ATHLETICS

In the interests of its women students, West Chester provides a broad variety of team, individual, and dual sports activities designed for them. Through participation in the planning, organizing, and performance of these sports, leadership responsibilities are developed. All women students are eligible to take part in women's intramural and intercollegiate sports programs.

### Women's Intercollegiate Athletic Program

The activities of the WIAP are conducted by the adviser of the program, the women coaches, and a student advisory council consisting of the managers of the varsity sports. The program includes a variety of team and individual sports, such as hockey, swimming, lacrosse, bowling, badminton, softball, gymnastics, basketball, tennis, and synchronized swimming. In accordance with the highest ideals of good sportsmanship, the activities are planned to provide opportunities for wholesome competition with college women of comparable skill. Participating students develop interest and skill in worthy leisure-time activities, further cultural understanding through contacts with students from other colleges, and gain experience in coaching. The entire women's intercollegiate program is guided by the standards and policies of the Division of Girls' and Women's Sports, a division of the American Association of Health, Physical Education, and Recreation.

### Women's Intramural Athletics

The Women's Athletic Association conducts intramural athletics for the social, physical, and recreational benefit of the women students. The governing council consists of the club officers and sports managers, who are elected by the students and a faculty adviser. Hockey, volleyball, basketball, tennis, softball, table tennis, lacrosse, and badminton are among the activities available. The organization fosters good sportsmanship and increased participation. It views personal satisfaction and enjoyment as the desired outcomes of sports activity. The WAA belongs to the National Athletic and Recreation Federation of College Women and the Pennsylvania Division of the Athletic and Recreation Federation of College Women.

## BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL EDUCATION

Candidates must satisfactorily complete 128 semester hours distributed among three areas as follows:

### I General Requirements - - - - - 62 Semester Hours

| SKILLS AND COMPETENCIES | 13 S. H. |
|---|---|
| Eng 101—Composition I | 3 |
| Eng 102—Composition II | 3 |
| Sph 101—Fund of Speaking | 2 |
| HEd 151—Personal Health I | 3 |
| PEd 110M—Gym Activities | 1 |
| PEd 111W—Soccer/Spdb/Bkb | |
| PEd 112M—Tumbling/Vaulting | 1 |
| PEd 113W—Gym/Fund of Exercise | |

| ARTS AND LETTERS | 15 S. H. |
|---|---|
| Art 101—Fine Arts (Art) | 3 |
| Lit 121—General Literature I | 3 |
| Lit 122—General Literature II | 3 |
| Mus 121—Fine Arts (Music) | 3 |
| Phi 280—Intro to Philosophy | 3 |

| SOCIAL SCIENCES | 15 S. H. |
|---|---|
| Psy 100—Intro to Psychology | 3 |
| His 101—History of Civ I | 3 |
| His 102—History of Civ II | 3 |
| PSc 231—American Government | 3 |
| His 212—History of U.S. II | 3 |

| SCIENCES | 19 S. H. |
|---|---|
| Mat 101—Introduction to College Mathematics I | 3 |
| Che 100—Princ. of Chemistry | 4 |
| Sci 150—Basic Physical Science | 4 |
| Bio 261—Human Anatomy | 4 |
| Bio 262—Human Physiology | 4 |

### II Professional Education - - - - - 30 Semester Hours

| | |
|---|---|
| EdF 100—School and Society | 3 |
| EdM 300—Audio-Visual Education | 2 |
| EdP 250—Psychology of Learning and Development | 3 |
| PEd 210M—Prep Teaching Elem PE | 1 |
| PEd 211W—Prep Teaching Elem PE | |
| PEd 310M—Prep Teaching Secondary PE | 1 |
| PEd 311W—Prep Teaching Secondary PE | |
| HEd 351—Human Development | 3 |
| HEd 352—Methods and Materials in Health Education | 2 |
| PEd 361—Tests, Measurements, and Statistics in Health and Phys. Edu. | 3 |
| PEd 471—Student Teaching in the Secondary School, including Professional Practicum | 12 |

### III Health and Physical Education - - - 36 Semester Hours

| | |
|---|---|
| PEd 120M—Individual Sports | 1 |
| PEd 121W—Lacrosse/Track/Field | |
| PEd 122M—Soccer/Wrestling | 1 |
| PEd 123W—Hockey/Volleyball | |
| PEd 130M—Aquatic Fundamentals | 1 |
| PEd 131W—Aquatic Fundamentals | |
| PEd 132M—Life Saving | 1 |
| PEd 133W—Life Saving | |
| PEd 212M—Heavy Apparatus | 1 |
| PEd 213W—Advanced Gymnastics | |
| PEd 220M—Football/Track/Field | 1 |
| PEd 221W—Adv Hk/Lac/Tr/Field | |
| PEd 222M—Basketball/Baseball | 1 |
| PEd 223W—Basketball/Tennis | |
| PEd 240M—Elem Rhy/Flk Dance | 1 |
| PEd 241W—Elem Rhy/Flk Dance | |
| PEd 242M—Social/Square Dance | 1 |

(Continued)

PEd 243W—Social/Square Dance
HEd 252—First Aid/Injuries 2
HEd 253—School Health Program 2
PEd 261—History and Philosophy of Physical Education 2
PEd 322M—Advanced Team Sports I 1
PEd 323W—Tn/Sfb/Off Hk/Bkb
PEd 324M—Advanced Team Sports II 1
PEd 325W—Bdm/Golf/Archery
Men Elective 1
PED 341W—Modern Dance I
HEd 357—Community Health 2
PEd 362—Physical Education for Elementary Grades 3
PEd 363W—Org/Adm of PE/Ath 2
PEd 364M—Org/Adm of PE/Ath
PEd 365—Physical Activities for Atypical Children I 2
PEd 455—Applied Physiology 3
PEd 461—Physical Activities for Atypical Children II 2
PEd 462—Principles of Recreation 2
PEd 463W—Principles of Coaching 2
PEd 464M—Principles of Coaching

## TYPICAL COURSE SEQUENCE FOR HEALTH AND PHYSICAL EDUCATION MAJORS

| FIRST SEMESTER | SEM. HRS. |
|---|---|
| EdF 100—School and Society | 3 |
| Eng 101—English Composition I | 3 |
| Mat 101—Introduction to College Mathematics I | 3 |
| Sph 101—Fund of Speaking | 2 |
| PEd 110M—Gym Activities | 1 |
| PEd 111W—Soccer/Spdb/Bkb | |
| PEd 120M—Individual Sports | 1 |
| PEd 121W—Lacrosse/Track/Field | |
| PEd 130M—Aquatic Fundamentals | 1 |
| PEd 131W—Aquatic Fundamentals | |
| HEd 151—Personal Health I | 3 |
| | 17 |

| SECOND SEMESTER | SEM. HRS. |
|---|---|
| Art 101—Fine Arts (Art) | 3 |
| Che 100—Principles of Chemistry | 4 |
| Eng 102—English Composition II | 3 |
| Psy 100—Intro to Psychology | 3 |
| PEd 112M—Tumbling/Vaulting | 1 |
| PEd 113W—Gym/Fund of Exercise | |
| PEd 122M—Soccer/Wrestling | 1 |
| PEd 123W—Hockey/Volleyball | |
| PEd 132M—Life Saving | 1 |
| PEd 133W—Life Saving | |
| HEd 357—Community Health | 2 |
| | 18 |

| THIRD SEMESTER | SEM. HRS. |
|---|---|
| Bio 261—Human Anatomy | 4 |
| His 101—History of Civ I | 3 |
| Lit 121—General Literature I | 3 |
| Sci 150—Basic Physical Science | 4 |
| PEd 210M—Prep Teaching Elem PE | 1 |
| PEd 211W—Prep Teaching Elem PE | |
| PEd 220M—Football/Track/Field | 1 |
| PEd 221W—Adv Hk/Lac/Tr/Fld | |
| PEd 240M—Elem Rhy/Flk Dance | 1 |
| PEd 241W—Elem Rhy/Flk Dance | |
| Men Elective | 1 |
| PEd 341W—Modern Dance I | |
| | 18 |

| FOURTH SEMESTER | SEM. HRS. |
|---|---|
| His 102—History of Civilization II | 3 |
| Lit 122—General Literature II | 3 |
| PEd 212M—Heavy Apparatus | 1 |
| PEd 213W—Advanced Gymnastics | |
| PEd 222M—Basketball/Baseball | 1 |
| PEd 223W—Basketball/Tennis | |
| PEd 242M—Social/Square Dance | 1 |
| PEd 243W—Social/Square Dance | |
| HEd 252—First Aid/Injuries | 2 |
| HEd 253—School Health Program | 2 |
| PEd 261—History of Phys Edu | 2 |
| | 15 |

| FIFTH SEMESTER | SEM. HRS. |
|---|---|
| EdP 250—Psychology of Learning and Development | 3 |
| EdM 300—Audio-Visual Education | 2 |
| PEd 322M—Advanced Team Sports I | 1 |
| PEd 323W—Tn/Sfb/Off Hk/Bkb | |
| HEd 351—Human Development | 3 |
| PEd 361—Tests/Meas./Stat. in Physical Education | 3 |
| PEd 362—Physical Education for Elementary Grades | 3 |
| PEd 365—Physical Activities for Atypical Children I | 2 |
| | 17 |

| SIXTH SEMESTER | SEM. HRS. |
|---|---|
| Bio 262—Human Physiology | 4 |
| His 212—History of U.S. II | 3 |
| Mus 121—Fine Arts (Music) | 3 |
| PEd 310M—Prep Teaching Secon PE | 1 |
| PEd 311W—Prep Teaching Secon PE | |
| PEd 324M—Advanced Team Sports II | 1 |
| PEd 325W—Bdm/Golf/Archery | |
| HEd 352—Methods and Materials of Health Education | 2 |
| PEd 363W—Org/Adm of PE/Ath | 2 |
| PEd 364M—Org/Adm of PE/Ath | |
| | 16 |

| SEVENTH SEMESTER | SEM. HRS. |
|---|---|
| Phi 280—Intro to Philosophy | 3 |
| PSc 231—American Government | 3 |
| PEd 455—Applied Physiology | 3 |
| PEd 461—Physical Activities for Atypical Children II | 2 |
| PEd 462—Princ of Recreation | 2 |
| PEd 463W—Princ of Coaching | 2 |
| PEd 464M—Princ of Coaching | |
| | 15 |

| EIGHTH SEMESTER | SEM. HRS. |
|---|---|
| PEd 471—Student Teaching in the Secondary School, including Practicum | 12 |
| | 12 |
| TOTAL SEMESTER HRS. | 128 |

## BACHELOR OF SCIENCE IN HEALTH EDUCATION

Candidates must satisfactorily complete 128 semester hours distributed among four areas as follows:

### I General Requirements - - - - - - 56 Semester Hours

| SKILLS AND COMPETENCIES | 12 S.H. |
|---|---|
| Eng 101—English Composition I | 3 |
| Eng 102—English Composition II | 3 |
| Sph 101—Fundamentals of Speaking | 2 |
| PEd 101—Physical Activities I | 1 |
| PEd 102—Physical Activities II | 1 |
| HEd 357—Community Health | 2 |

| SOCIAL SCIENCES | 15 S.H. |
|---|---|
| His 102—History of Civilization II | 3 |
| His 212—History of U.S. II | 3 |
| PSc 231—American Government | 3 |
| Psy 100—Introduction to Psychology | 3 |
| Soc 231—Introduction to Sociology | 3 |

| ARTS AND LETTERS | 15 S.H. |
|---|---|
| Art 101—Fine Arts (Art) | 3 |
| Lit 121—General Literature I | 3 |
| Lit 122—General Literature II | 3 |
| Mus 121—Fine Arts (Music) | 3 |
| Phi 280—Introduction to Philosophy | 3 |

| SCIENCES | 11 S.H. |
|---|---|
| Bio 100—Basic Biological Science | 4 |
| Che 100—Principles of Chemistry | 4 |
| Mat 101—Introduction to College Mathematics I | 3 |

| FREE ELECTIVES | 3 S.H. |
|---|---|

## II Professional Education - - - - - 29 Semester Hours

EdF 100—School and Society 3
EdP 250—Psychology of Learning and Development 3
EdM 300—Audio-Visual Education 2
HEd 351—Human Development 3
HEd 352—Methods and Materials in Health Education 2
HEd 359—Field Experience in Health Education 1
PEd 361—Tests, Measurements, and Statistics in Health and Physical Education 3
PEd 471—Student Teaching in the Secondary School, including Practicum 12

## III Specialized Preparation - - - - - 36 Semester Hours

HEd 151—Personal Health I 3
HEd 152—Personal Health II 3
HEd 252—First Aid and Care and Preventions of Athletic Injuries 2
HEd 253—School Health Program 2
HEd 354—Seminar in Health Education 3
HEd 355—Nutrition 2
HEd 356—Family Life Education 2
HEd 358—Field Experience in Community Health 1
PEd 131—Aquatic Fundamentals 1
PEd 120M—Individual Sports for Men
PEd 325W—Badminton, Golf, and Archery 1
Bio 261—Human Anatomy 4
Bio 262—Human Physiology 4
Psy 354—Social Psychology 3
Psy 370—Mental Hygiene 3
Electives chosen from Physical Education offerings 2

## IV Electives (under advisement) - - - - 7 Semester Hours

## TYPICAL COURSE SEQUENCE FOR HEALTH EDUCATION MAJORS

| FIRST SEMESTER | SEM. HRS. |
|---|---|
| Bio 100—Basic Biological Science | 4 |
| Eng 101—English Composition I | 3 |
| HEd 151—Personal Health I | 3 |
| His 102—History of Civilization II | 3 |
| PEd 101—Physical Activities I | 1 |
| Psy 100—Introduction to Psychology | 3 |
| | 17 |

| SECOND SEMESTER | SEM. HRS. |
|---|---|
| EdF 100—School and Society | 3 |
| Eng 102—English Composition II | 3 |
| HEd 152—Personal Health II | 3 |
| Mat 101—Introduction to College Mathematics I | 3 |
| PEd 102—Physical Activities II | 1 |
| Soc 231—Introduction to Sociology | 3 |
| | 16 |

| THIRD SEMESTER | SEM. HRS. |
|---|---|
| Bio 261—Human Anatomy | 4 |
| Che 100—Principles of Chemistry | 4 |
| Lit 121—General Literature I | 3 |
| PEd 131—Aquatic Fundamentals | 1 |
| PEd 252—First Aid and Care and Prevention of Athletic Injuries | 2 |
| Psy 370—Mental Hygiene | 3 |
| | 17 |

| FOURTH SEMESTER | SEM. HRS. |
|---|---|
| Bio 262—Human Physiology | 4 |
| EdP 250—Psychology of Learning and Development | 3 |
| HEd 351—Human Development | 3 |
| Lit 122—General Literature II | 3 |
| PEd 120M—Individual Sports for Men | |
| PEd 325W—Badminton, Golf, and Archery | 1 |
| Sph 101—Fundamentals of Speaking | 2 |
| | 16 |

| FIFTH SEMESTER | SEM. HRS. |
|---|---|
| EdM 300—Audio-Visual Education | 2 |
| HEd 253—School Health Program | 2 |
| HEd 355—Nutrition | 2 |
| HEd 357—Community Health | 2 |
| HEd 358—Field Experience in Community Health | 1 |
| PEd Elective | 1 |
| PEd 361—Tests, Measurements, and Statistics in Health and Phys. Ed. | 3 |
| Electives | 3 |
| | 16 |

| SIXTH SEMESTER | SEM. HRS. |
|---|---|
| Art 101—Fine Arts (Art) | 3 |
| HEd 352—Methods and Materials in Health Education | 2 |
| HEd 356—Family Life Education | 2 |
| HEd 359—Field Experience in Health Education | 1 |
| His 212—History of U.S. II | 3 |
| PEd Elective | 1 |
| Electives | 5 |
| | 17 |

| SEVENTH SEMESTER | SEM. HRS. |
|---|---|
| PEd 471—Student Teaching in the Secondary School, including Practicum | 12 |
| | 12 |

| EIGHTH SEMESTER | SEM. HRS. |
|---|---|
| HEd 354—Seminar in Health Education | 3 |
| Mus 121—Fine Arts (Music) | 3 |
| Phi 280—Introduction to Philosophy | 3 |
| PSc 231—American Government | 3 |
| Psy 354—Social Psychology | 3 |
| Electives | 2 |
| | 17 |

TOTAL SEMESTER HOURS 128

## CERTIFICATION PROGRAM IN EDUCATION FOR SAFE LIVING

### [Highway Safety and General Safety Education]

The standards for certification as approved by the Pennsylvania Department of Education, January 9, 1948, require twelve semester hours for the extension of a teacher's certificate to include this field. The following courses are offered by the School to satisfy the course requirement in this field:

| *Required:* | | Semester Hours |
|---|---|---|
| PEd 481 | Education for Safe Living | 3 |
| PEd 483 | Preparation for Teaching Driver and Traffic Safety Education | 3 |
| *Elect two from the following:* | | |
| PEd 482 | Principles and Practices of Driver Education and Traffic Safety | 3 |
| PEd 484 | Methods and Materials of Safety Education | 3 |
| PEd 485 | Safety Concepts, Emergency Procedures, and Injury Management | 3 |

### A Program in Recreation Leadership

For students who desire to prepare as recreation leaders, the Department of Physical Education provides appropriate elective courses, in addition to related courses included in the requirements for the health and physical education major. The Department also offers a special program in camp leadership for staff members at children's summer camps. This supervised field experience is designed to aid the student's professional growth through work with children in the informal atmosphere of the camp.

Any West Chester student is eligible to participate in the field program. If credit is to be applied toward a degree, permission of his adviser should be obtained.

Students from other colleges may register, with the permission of the course instructor. They are advised to obtain approval from their own college in order to assure that credits from the course may be applied toward degree requirements. The available electives, as well as the summer field experience, are described below:

| | | Semester Hours |
|---|---|---|
| PEd 462 | Principles of Recreation | 3 |
| PEd 367 | Arts and Crafts in Recreation | 3 |
| PEd 370 | Camping and Outing | 3 |
| *Summer Field Experience* | | |
| PEd 467 | Supervised Camping Leadership<br>(6 to 8 weeks' attendance at camp July through August) | 3 |

# School of Music

Lloyd C. Mitchell, *Dean*
Alexander Antonowich, *Assistant Dean*
Charles A. Sprenkle, *Associate Dean for Graduate Studies and Research*

Department of Theory and Composition
Department of Music History and Literature
Department of Music Education
Department of Keyboard Music
Department of Vocal and Choral Music
Department of Instrumental Music

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**PROFESSORS**

ANTONOWICH
CAREY
CHEESMAN
COHEN
FLETCHER
JOHNS (PART-TIME)
MITCHELL
MUNGER
PARRIS
PENNINGTON
SCHICK
THOMSON
VELETA, R.
WILKINSON
WRIGHT

**ASSOCIATE PROFESSORS**

ALT
BACHMANN
BARROW
BEDFORD
CARSON
FRENZ
GANGEMI
GOTTLIEB
HALES
HAYS
McCLELLAN
MARKOW
MERRELL
PETHES
PFLIEGER
SHEPPARD
SMITH
SPRENKLE
SWEET
VOOIS
WEISS
WELLS
WHITTEN
WILLIAMS

**ASSISTANT PROFESSORS**

BEATTY
BOERLIN
CARL
COLLINS
CONAWAY
FARESE
FRIDAY
GUIDETTI
KLEIN
KRUEGER
LAUDERMILCH
MILLER
NORTHEIMER
ROPER (PART-TIME)
SOUTHALL
SULLIVAN
VANDEVER
WAGNER

**INSTRUCTORS**

BREUNINGER (PART-TIME)
GOEBEL (PART-TIME)
VELETA, M. (PART-TIME)

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## BACHELOR OF SCIENCE IN MUSIC EDUCATION

## BACHELOR OF ARTS IN MUSIC

## BACHELOR OF MUSIC

THE SCHOOL OF MUSIC offers three programs of study leading to undergraduate degrees:

[1] *Bachelor of Science in Music Education*: a balanced program of general, specialized, and professional courses leading to qualification for a Pennsylvania Instructional I Certificate to teach music in the elementary and secondary schools of Pennsylvania for three years.

[2] *Bachelor of Arts in Music*: a balanced program of courses which are general and specialized, providing a concentration area in either applied music or a combination of music theory and music literature; structured for students desiring a liberal-arts education with a major in music.

[3] *Bachelor of Music*: a balanced program of courses which are general, specialized, and professional for the performing musician; structured for students desiring a college degree and interested in such areas as professional performance, studio teaching, and church music.

### ENTRANCE REQUIREMENTS

Candidates for admission to the School of Music must meet the general requirements for admission as indicated under Admission to West Chester. In addition, all candidates must appear for a personal interview and certain music tests, which vary according to the degree program sought.

The College will provide large instruments such as the tuba, string bass, or timpani for these tests. All smaller instruments must be brought to the College. All candidates will take the Seashore Test of Musical Talent, for which no preparation is necessary.

The following are acceptable as "major" instruments: violin, viola, cello, bass, trumpet, trombone, baritone, tuba, French horn, oboe, English horn, flute, clarinet, bassoon, and percussion (provided the candidate demonstrates an acceptable competence in playing various percussion instruments). The saxophone and accordion are not considered acceptable major performance areas. However, the School of Music will audition a candidate on these instruments if he believes the audition will demonstrate additional evidence of his background.

*Transfer Students* — consult the paragraphs headed *Admission of Transfer Students* and *Advanced Credit Requirement* under Admission to West Chester.

MUSIC TESTS — B.S. IN MUSIC EDUCATION

(1) Each candidate must demonstrate sufficient background in at least one performing medium which can be considered a major area: piano, organ, voice, or a band or orchestra instrument. The audition must give evidence of mastery of approximately fourth-grade-level material.

(2) All candidates are tested in voice, piano, and sight singing.

(3) A piano, organ, or voice major who has had band or orchestra instrument experience is urged to demonstrate his ability on his instrument.

*Note*: Each candidate must bring music for the vocal, piano, and instrumental compositions he intends to perform, and should come prepared with a song that will demonstrate vocal range and quality.

MUSIC TESTS — B.A. IN MUSIC

Each candidate must demonstrate acceptable background in at least one performing medium. Those planning to elect the concentration in applied music must give evidence of mastery of approximately fourth-grade-level material.

MUSIC TESTS — B.MUS.

Each candidate must demonstrate an advanced level of proficiency in the major area of performance as evidenced by his ability to perform compositions representing a variety of styles and by his mastery of approximately sixth-grade-level material.

# SCHOOL OF MUSIC DEGREE PROGRAMS

## B.S. IN MUSIC EDUCATION

Candidates must satisfactorily complete 128 semester hours, distributed among three areas as follows:

### I General Requirements - - - - - 52 Semester Hours

1. SKILLS AND COMPETENCIES | 12 semester hours
   - a. English Composition 6
   - b. Speech 2
   - c. Health 2
   - d. Physical Education (including Eurythmics) 2

2. ARTS AND LETTERS | 18 semester hours
   - a. Literature 6
   - b. Art 3
   - c. Music 6
   - d. Philosophy 3

3. SOCIAL SCIENCES | 15 semester hours
   - a. History 9
   - b. Psychology 3
   - c. Political Science 3

4. SCIENCE (with Lab) | 7 semester hours

## II Professional Requirements - - - - 25 Semester Hours

EdF 100—School and Society
Mus 331—Elementary Music Methods
Mus 332—Secondary Music Methods
Mus 333—Instrumental Methods
EdP 250—Psychology of Learning and Development
Mus 434—Student Teaching, Practicum, and Direction of Student Activities

## III Specialized Preparation - - - - - 51 Semester Hours

Mus 111—Foundations of Music
Mus 112—Theory of Music I
Mus 211—Theory of Music II
Mus 212—Theory of Music III
Mus 311—Theory of Music IV
Mus 113—Sight Singing I
Mus 213—Sight Singing II
Mus 221—Music in Western Civilization I
Mus 222—Music in Western Civilization II
(221-222 credited to General Requirements)
CCo 211—Choral Conducting
ICo 311—Instrumental Conducting
Major Performing Area (Individual Lessons) 4-8 hours
Minor Performing Area (Individual Lessons) 4-6 hours
Minor Performing Area (Class) 5 hours
Musical Organization 6-8 hours
Electives 2-4 hours
(Chosen from list shown below)

A typical sequence of courses may be obtained from the School of Music.

## MUSIC ELECTIVES AVAILABLE

### *Theory and Composition*

Mus 312 Counterpoint I
Mus 313 Counterpoint II
Mus 314 Musical Form
Mus 315 Orchestration
Mus 318 Techniques of Twentieth Century Composition
Mus 412 Composition I
Mus 413 Composition II

### *Music History and Literature*

Mus 224 Keyboard Literature I
Mus 225 Keyboard Literature II
Mus 226 Art Song I
Mus 227 Art Song II
Mus 322 American Music
Mus 323 Aesthetics and Music Criticism
Mus 324 String Literature I
Mus 325 String Literature II
Mus 326 Woodwind Literature I
Mus 327 Woodwind Literature II
Mus 328 Brass Literature I
Mus 329 Brass Literature II
Mus 421 Literature of the Musical Theater
Mus 422 Musico-Dramatic Production I
Mus 423 Musico-Dramatic Production II
Mus 424—Development of the Opera
Mus 425 Literature of Orchestral Music
Mus 426 Choral Repertoire I
Mus 427 Choral Repertoire II
Mus 428 Chamber Music Literature

(Continued)

*Music Education*

Mus 334 Teaching Music Appreciation in the Elementary Grades
Mus 335 Choral Materials and Practices
Mus 336 Piano Methods (Class)
Mus 337 Instrumental Techniques and Materials

*Applied Music*

Musical Organizations, Ensembles, Master Classes, Advanced Conducting (Choral, Instrumental)

## BACHELOR OF ARTS

Candidates must satisfactorily complete 128 semester hours, distributed among three areas as follows:

### I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

The required 6 hours of a foreign language must be through the intermediate (201-202) level.

### II Music Concentration Requirements - - - 56 Semester Hours

*Required Core* [44 semester hours]

Mus 221—Music in Western Civilization I
(credited to General Requirements)
Mus 222—Music in Western Civilization II
Mus 323—Aesthetics and Music Criticism
Mus 111—Foundations of Music
Mus 112-211-212-311 Theory of Music I-II-III-IV
Mus 312—Counterpoint I
Mus 314—Musical Form
Mus 113—Sight Singing I
Performance Area (Individual Lessons) 8 hours
Minor Performance Area (Individual Lessons) 2 hours
Musical Organization 2 hours
Conducting (Choral or Instrumental ) 2 hours
Music History—Literature Elective 3 hours

*Required Courses in Major Area of Concentration* [12 semester hours]

ELECT EITHER A. OR B.

A. For students electing a concentration area of Applied Music:

Major Performing Area (Individual Lessons) 4 hours
Special Elective Requirement of Concentration Area (under advisement) 8 hours

B. For students electing a concentration area in the combination of Theory—Music History and Literature:

Mus 313—Counterpoint II
Mus 315—Orchestration
Mus 318—Techniques of Twentieth Century Composition
Mus 424—Development of the Opera
Mus 425—Literature of Orchestral Music
Mus 428—Chamber Music Literature

### III Electives - - - - - - - - - 10 Semester Hours

These courses may be chosen, under advisement, from other curricula or from the list, *Music Electives Available, shown under B.S. in Music Education,* above.

A typical sequence of courses may be obtained from the School of Music.

## BACHELOR OF MUSIC

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among two areas, as follows:

### I General Requirements - - - - - 50 Semester Hours

[1] SKILLS AND COMPETENCIES | 16 semester hours

a. English Composition 6
b. Foreign Languages 6
(Need not be at intermediate level)
c. Health 2
d. Physical Education (including Eurythmics) 2

[2] ARTS AND LETTERS | 17 semester hours

a. English Literature 3
b. English or Language Literature 3
c. Art 3
d. Music 3
e. Aesthetics 2
f. Philosophy 3

[3] SOCIAL SCIENCES | 6 or 9 semester hours

a. History 6
b. Psychology 3
(unless Mathematics, shown below, is chosen)

[4] SCIENCE | 3 or 6 semester hours

a. Physical Science, including Acoustics 3
b. Mathematics 3
(unless Psychology, shown above is chosen)

[5] ELECTIVES | 5 semester hours

(Chosen from all curricula)

## II Music Concentration Requirements - - - 78 Semester Hours

*A. Required Core* [60 semester hours]

Mus 221 Music in Western Civilization I
(credited to General Requirements)
Mus 222 Music in Western Civilization II
Mus 111 Foundations of Music
Mus 112-211-212-311 Theory of Music I-II-III-IV
Mus 312 Counterpoint I
Mus 314 Musical Form
Mus 113 Sight Singing I

| | |
|---|---|
| Major Performance Area | 16 |
| Minor Performance Area | 4 |
| Musical Organization | 2 |
| Conducting (Choral or Instrumental) | 2 |
| Master Class and/or Ensemble | 4 |
| Literature (Applied Major) | 4 |
| Music History–Literature Elective | 3 |

*B. Electives* [18 semester hours]

These courses may be chosen, under advisement, from the list, *Music Electives Available,* shown under *B.S. in Music Education,* above. Voice majors are required to elect 9 hours of a foreign language. (These language studies may be at any level.)

A typical sequence of courses may be obtained from the School of Music.

# School of Sciences and Mathematics

Russell K. Rickert, *Interim Dean*

Department of Biology
Department of Chemistry
Department of Earth, Space, and General Sciences
Department of Mathematics
Department of Nursing
Department of Physics

## BACHELOR OF ARTS

Biology
Mathematics
Physics

## BACHELOR OF SCIENCE

Chemistry

## BACHELOR OF SCIENCE IN EDUCATION

Biology
Chemistry
Comprehensive Science
Earth and Space Science
Mathematics
Physics

## COOPERATIVE DEGREE PROGRAMS FOR

Dental Hygienists
Public School Nurses

# DEPARTMENT OF BIOLOGY

Dr. Relis B. Brown, *Chairman*

| PROFESSORS | ASSOCIATE PROFESSORS | ASSISTANT PROFESSORS |
|---|---|---|
| BROWN, R. | BERNHARDT | BLISS |
| CINQUINA | CULLEN | BROWN, W. |
| DORCHESTER | DeMOTT | JONES |
| OVERLEASE | MARTINEZ | WEBSTER |
| TREZISE | McDONNELL | WOODRUFF |
| | ROMIG | |
| | SKILLEN | |

The major in biology centers about a core of courses which emphasize broad unifying principles. The foundation subjects, botany and zoology, are followed by the integrative disciplines of genetics, ecology, and general physiology. Available electives provide enriching experiences in both the basic and taxonomic subdivisions of biology.

## BACHELOR OF ARTS

### Biology

The B.A. program in biology provides both the liberal education and the special preparation required for careers in college teaching, government service, independent and industrial research, science-related sales and public relations, and other areas of business. This program also prepares students to qualify for admission to graduate and professional schools. Candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

The required 6 semester hours of foreign language through the intermediate level must be met in French, German, or Russian.

II Science Core Requirements - - - - 27 Semester Hours

Che 103—General Chemistry I
Che 104—General Chemistry II
(103-4 credited to General Requirements)
Che 231—Organic Chemistry I
Che 232—Organic Chemistry II
Phy 103—General Physics I
Phy 104—General Physics II

Mat 105—College Algebra and Trigonometry
(credited to General Requirements)
Mat 141—Calculus I
Mat 142—Calculus II
Mat 241—Calculus III
(or)
Mat 121—Statistics

Elective in astronomy or earth science.

### III Biology Concentration Requirements - - 35 Semester Hours

Bio 111—Botany I
Bio 112—Botany II
Bio 141—Zoology I
Bio 142—Zoology II
Bio 301—Genetics
Bio 302—Ecology
Bio 344—General Physiology
Bio 450—Biology Seminar

A minimum of 9 additional semester hours in biology must be chosen from available electives.

### IV Electives - - - - - - - - - 4 Semester Hours

Offerings in biology are shown following requirements for the B.S. in Education degree.

A typical sequence of courses may be obtained from the Department.

## B.S. IN EDUCATION

### Biology

A student may qualify for the Pennsylvania Instructional I Certificate in biology by completing a minimum field requirement of 39 semester hours as indicated below. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

### I General Requirements - - - - - 56 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

### II Professional Education Requirements - - 28 Semester Hours

(See School of Education—locate by leafing to black bar on margin.)

### III Specialized Preparation - - - - - 39 Semester Hours

*Required in Related Fields*

Che 103—General Chemistry I
Che 104—General Chemistry II
(103-4 credited to General Requirements)
Mat 105—College Algebra and Trigonometry
(credited to General Requirements)
Che 230—Introduction to Organic Chemistry
Sci 350—Teaching Biology in Secondary Schools
(credited to Professional Education)

*Required in Biology*

Bio 111—Botany I
Bio 112—Botany II
Bio 141—Zoology I
Bio 142—Zoology II
Bio 301—Genetics
Bio 302—Ecology
Bio 344—General Physiology
Bio 450—Biology Seminar

A minimum of an additional 9 semester hours in biology must be chosen from available electives.

IV Electives - - - - - - - - - 5 Semester Hours

A typical sequence of courses may be obtained from the Department.

## OFFERINGS IN BIOLOGY

Bio 100 Basic Biological Science
Bio 111 Botany I
Bio 112 Botany II
Bio 141 Zoology I
Bio 142 Zoology II
Bio 210 Field Botany
Bio 241 Field Zoology
Bio 242 Ornithology
Bio 243 Comparative Anatomy
Bio 260 Anatomy of Speech and Hearing Mechanisms
Bio 261 Human Anatomy
Bio 262 Human Physiology
Bio 300 Basic Genetics
Bio 301 Genetics
Bio 302 Ecology
Bio 303 Basic Ecology
Bio 310 Bacteriology
Bio 340 Basic Entomology
Bio 341 Entomology
Bio 343 Physiological Chemistry
Bio 344 General Physiology
Bio 345 Plant Physiology
Bio 346 Plant Structure
Bio 351 Embryology
Bio 355 Wildlife Conservation
Bio 402 Cytology
Bio 411 Plant Taxonomy
Bio 450 Biology Seminar
Bio 452 Special Problems in Biology

# DEPARTMENT OF CHEMISTRY

DR. REYNOLDS, *Chairman*

| PROFESSORS | ASSOCIATE PROFESSORS | INSTRUCTORS |
|---|---|---|
| ASHKENAZ | DURAND | KEILBAUGH (PART-TIME) |
| BRAVO | GERCHMAN | KRISHNAN (PART-TIME) |
| MEDEIROS | RACHINSKY | SHAW (PART-TIME) |
| REYNOLDS | RUDNICK | |
| | WILLIAMS | |

The basic core program in the specialization in chemistry is designed to provide a survey of the five principal branches of that science: analytical, biological, inorganic, organic, and physical chemistry. This is followed by a required sequence of courses covering the various areas of modern chemistry.

## BACHELOR OF SCIENCE IN CHEMISTRY

The B.S. program in chemistry enables the student to receive basic preparation required for the career of his choice. Such choices could be college and university teaching, positions as professional chemists, research work, and various services in industry and government. In all cases, the program will prepare the student for graduate study in the field of chemistry.

Candidates must satisfactorily complete a minimum of 128 semester hours distributed among five areas as follows:

### I General Requirements - - - - - 56 Semester Hours

[1] SKILLS AND COMPETENCIES | 18 semester hours

| | | | |
|---|---|---|---|
| a. English Composition | 6 | d. Physical Education | 2 |
| b. Speech | 2 | e. Health | 2 |
| c. Foreign Language | 6 | | |

German required; need not be at intermediate level. French or Russian (at 101-102 level) may be substituted if a reading proficiency in German is demonstrated.

[2] ARTS AND LETTERS | 12 semester hours

| | | | |
|---|---|---|---|
| a. Literature | 6 | c. Philosophy | 3 |
| b. Art or Music | 3 | | |

[3] SOCIAL SCIENCES | 12 semester hours

| | | | |
|---|---|---|---|
| a. History | 6 | c. Political Science or Economics | 3 |
| b. Psychology or Sociology | 3 | | |

[4] SCIENCES | 11 semester hours

| | | | |
|---|---|---|---|
| a. Science (with lab) | 8 | b. Mathematics | 3 |

[5] FREE ELECTIVES | 3 semester hours

II Science Core Requirements - - - - 20 Semester Hours

Phy 101-102—General Physics I-II
Mat 141—Calculus I
(credited to General Requirements)
Mat 142-241-242—Calculus II-III-IV
CSc 101—Computer Programming

III Chemistry Concentration Requirements - - 33 Semester Hours

Che 103-104—General Chemistry I-II
(credited to General Requirements)
Che 231-232-233—Organic Chemistry I-II-III
Che 321—Quantitative Analysis
Che 341-342-343—Physical Chemistry I-II-III
Che 410—Advanced Inorganic Chemistry
Che 471—Fundamentals of Biochemistry

IV Science Electives - - - - - - - 9 Semester Hours

Chosen, under advisement, from the following:

Che 401—History and Literature of Chemistry
Che 421—Advanced Analytical Chemistry
Che 431—Advanced Organic Chemistry
Che 440—Advanced Physical Chemistry
Che 441—Introductory Polymer Chemistry
Che 445—Chemical Thermodynamics
Che 451—Chemistry of Coordination Compounds
Che 461—Nuclear Chemistry
Che 473—Biochemistry
Che 480—Introduction to Chemical Research
Che 491—Seminar in Chemistry
Phy 212—Mechanics
Phy 421—Electricity and Magnetism I

V Free Electives - - - - - - - 10 Semester Hours

A typical sequence of courses may be obtained from the Department.

## B.S. IN EDUCATION

### Chemistry

A student may qualify for the Pennsylvania Instructional I Certificate in chemistry by completing a minimum field requirement of 40 semester hours as indicated below. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I General Requirements - - - - - 56 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

II Professional Education Requirements - - 28 Semester Hours

(See School of Education—locate by leafing to black bar on margin.)

## III Specialized Preparation - - - - - 40 Semester Hours

*Required in Chemistry*

Che 103-104—General Chemistry I-II
Che 231-232—Organic Chemistry I-II
Che 321—Quantitative Analysis
Che 345—Physical Chemistry for the Life Sciences
(Chemistry 341 may be substituted)
Che 401—History and Literature of Chemistry
Che 471—Fundamentals of Biochemistry

*Required in Related Fields*

Phy 103-104—General Physics I-II
(credited to General Requirements)
Mat 141—Calculus I
(credited to General Requirements)
Mat 142—Calculus II
Sci 350—Teaching Science in Secondary Schools
(credited to Professional Education)
Earth and Space Science—8 semester hours

## IV Free Electives - - - - - - - 4 Semester Hours

A typical sequence of courses may be obtained from the Department.

## OFFERINGS IN CHEMISTRY

Che 100 Principles of Chemistry
Che 101 Chemistry for Nurses
Che 103 General Chemistry I
Che 104 General Chemistry II and Qualitative analysis
Che 230 Introduction to Organic Chemistry
Che 231 Organic Chemistry I
Che 232 Organic Chemistry II
Che 233 Organic Chemistry III
Che 321 Quantitative Analysis
Che 324 Instrumental Methods of Analysis
Che 341 Physical Chemistry I
Che 342 Physical Chemistry II
Che 343 Physical Chemistry III
Che 345 Physical Chemistry for the Life Sciences
Che 401 History and Literature of Chemistry
Che 410 Advanced Inorganic Chemistry
Che 421 Advanced Analytical Chemistry
Che 431 Advanced Organic Chemistry
Che 432 Qualitative Organic Analysis
Che 440 Advanced Physical Chemistry
Che 441 Introductory Polymer Chemistry
Che 445 Chemical Thermodynamics
Che 451 Chemistry of Coordination Compounds
Che 461 Nuclear Chemistry
Che 471 Fundamentals of Biochemistry
Che 473 Biochemistry
Che 480 Introduction to Chemical Research
Che 491 Seminar in Chemistry

## DEPARTMENT OF EARTH, SPACE, AND GENERAL SCIENCES

DR. RICKERT, *Interim Chairman*

| PROFESSORS | ASSOCIATE PROFESSORS | |
|---|---|---|
| GREENBERG | CASCIATO | REED |
| RICKERT | EHLEITER | WIDICK |

The Department of Earth, Space, and General Sciences offers two programs leading to the Bachelor of Science in Education. Both are designed to prepare teachers for secondary schools and are ideal for students who plan to teach the junior high school sciences.

### B.S. IN EDUCATION

#### Comprehensive Science

A student may qualify for the Pennsylvania Instructional I Certificate in Comprehensive Science by completing a minimum field requirement of 44 semester hours as indicated below. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among three areas as follows:

I General Requirements - - - - - 56 Semester Hours
(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

II Professional Education Requirements - - 28 Semester Hours
(See School of Education—locate by leafing to black bar on margin.)

III Specialized Preparation - - - - - 44 Semester Hours

Bio 111-112—Botany I-II
(or)
Bio 141-142—Zoology I-II
(or)
One semester of botany and one semester of zoology
(credited to General Requirements)
Che 103-104—General Chemistry I-II
Phy 103-104—General Physics I-II
ESS 111—General Astronomy
ESS 201—Physical Geology
Sci 350—Teaching Science in Secondary Schools
(credited to Professional Education)
Mat 105—College Algebra and Trigonometry
(credited to General Requirements)

Twenty semester hours of electives must be chosen in consultation with the student's adviser. Students are advised to elect courses from biology, chemistry, earth and space sciences, or physics.

A typical sequence of courses may be obtained from the Department.

## B.S. IN EDUCATION

### Earth and Space Science

A student may qualify for the Pennsylvania Instructional I Certificate in Earth and Space Science by completing a minimum field requirement of 44 semester hours as indicated below. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among three areas as follows:

**I General Requirements - - - - - 56 Semester Hours**

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

**II Professional Education Requirements - - 28 Semester Hours**

(See School of Education—locate by leafing to black bar on margin.)

**III Specialized Preparation - - - - - 44 Semester Hours**

Che 103-104—General Chemistry I-II
(credited to General Requirements)
Phy 103-104—General Physics I-II
Sci 350—Teaching Science in Secondary Schools
(credited to Professional Education)
Mat 141—Calculus I
(credited to General Requirements)

ESS 201—Physical Geology
ESS 211—Historical Geology
ESS 350-351—Astronomy I-II
ESS 230—Introduction to Oceanography
ESS 240—Introduction to Meteorology

In consultation with his adviser, a student elects each of the following:

a. Four semester hours in biology

b. Two of the following courses:
ESS 301—Mineralogy and Petrology
ESS 311—Geochemistry
ESS 415—Introduction to Seismology
ESS 465—Observatory Principles
ESS 475—Introduction to the Planetarium
Geo 205—Geomorphology
Geo 302—Climatology

c. Four more semester hours from mathematics, chemistry, biology, physics, geography, or earth and space sciences.

A typical sequence of courses may be obtained from the Department.

## OFFERINGS IN EARTH AND SPACE SCIENCES

ESS 101 Earth Science
ESS 111 General Astronomy
ESS 201 Physical Geology
ESS 211 Historical Geology
ESS 230 Introduction to Oceanography

(Continued)

ESS 240 Introduction to Meteorology
ESS 301 Mineral and Petrology
ESS 311 Geochemistry
ESS 350 Astronomy I
ESS 351 Astronomy II
ESS 415 Introduction to Seismology
ESS 465 Observatory Principles
ESS 475 Introduction to the Planetarium

### OFFERINGS IN TEACHING OF SCIENCE

Sci 250 Science for the Elementary Grades
Sci 350 Teaching Science in Secondary Schools

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## DEPARTMENT OF MATHEMATICS

CHAIRED BY INTRADEPARTMENTAL COMMITTEE

**PROFESSORS**
FILANO
GHAZNAVI
GUMERMAN
MONTEMURO

**ASSOCIATE PROFESSORS**
AHLBORN
BRANTON
COTE
L'HEUREUX
MANDELBAUM
MILLIMAN
MOSER
SEYBOLD
VERNO
WEISS

**ASSISTANT PROFESSORS**
CHILDS
EGAN
FASNACHT
HODGSON
SNYDER
STANLEY
WIENER

**INSTRUCTOR**
HOEY

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The major in mathematics begins with a basic core program including analytic geometry, calculus, and linear algebra. This is followed by a required sequence of courses covering the major areas of modern mathematics. Additional specialization in specific branches of mathematics is possible through available electives.

### BACHELOR OF ARTS

#### Mathematics

The B.A. program in mathematics enables each student to receive the basic preparation required for the career of his choice. Among these are college and university teaching, research and other service in government and industry, and computer programming. In all cases each student receives a sound preparation for graduate study in the field of mathematics. Candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

## I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

The required 6 semester hours of foreign language through the intermediate level must be met in French, German, or Russian.

## II Science Core Requirements - - - - 12 Semester Hours

Physics 101-102—Physics I-II
(credited to General Requirements)
Physics Elective 4 semester hours

Laboratory Science
Electives 8 semester hours

## III Mathematics Concentration Requirements - - 36 Semester Hours

Mat 106—Foundations of Mathematics
(credited to General Requirements)
Mat 141—Calculus I
Mat 142—Calculus II
Mat 211—Linear Algebra
Mat 241—Calculus III
Mat 242—Calculus IV
Mat 411—Modern Algebra I
Mat 412—Modern Algebra II
Mat 441—Advanced Calculus I
Mat 442—Advanced Calculus II

A minimum of an additional 9 semester hours in mathematics must be chosen from available electives.

## IV Electives - - - - - - - - - 18 Semester Hours

A typical sequence of courses may be obtained from the Department.

## COMPUTER SCIENCE OPTION

By making appropriate use of his elective hours, a student majoring in mathematics in the Bachelor of Arts program may earn a concentration in computer science. Such a student takes the following 21-semester-hour program:

CSc 101 Introduction to Computers
CSc 201 Computer Organization and Programming
CSc 202 Algorithmic Languages and Compilers

An additional 12 semester hours selected from the following:

CSc 311 Logic and Switching Theory
CSc 321 Information Processing
CSc 331 Computational Linguistics
CSc 461 Monte Carlo Methods and Simulations
Mat 321 Combinatorics and Graph Theory
Mat 425 Numerical Analysis
Mat 427 Introduction to Optimization Techniques

## B.S. IN EDUCATION

### Mathematics

A student may qualify for the Pennsylvania Instructional I Certificate in mathematics by completing a minimum field requirement of 36 semester hours as indicated below. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

**I General Requirements - - - - - 56 Semester Hours**

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

**II Professional Education Requirements - - 28 Semester Hours**

(See School of Education—locate by leafing to black bar on margin.)

**III Specialized Preparation - - - - - 36 Semester Hours**

Mat 106—Foundations of Mathematics
(credited to General Requirements)
Mat 141—Calculus I
Mat 142—Calculus II
Mat 211—Linear Algebra
Mat 231—Concepts of Euclidean Geometry
Mat 241—Calculus III
Mat 242—Calculus IV
Mat 350—Teaching Mathematics in Secondary Schools
(credited to Professional Education)
Mat 411—Modern Algebra I
Mat 421—Mathematical Statistics I
Mat 422—Mathematical Statistics II
Mat 441—Advanced Calculus I

A minimum of an additional 6 semester hours in mathematics must be chosen from available electives.

**IV Electives - - - - - - - - - 8 Semester Hours**

A typical sequence of courses may be obtained from the Department.

## COMPUTER SCIENCE OPTION

By making appropriate use of his elective hours, a student with a major in mathematics in the Bachelor of Science in Education program may earn a concentration in computer science. Such a student takes the following 12-semester-hour program.

CSc 101 Introduction to Computers
CSc 201 Computer Organization and Programming
CSc 202 Algorithmic Languages and Compilers
CSc 350 Computers in Education

## OFFERINGS IN MATHEMATICS

Mat 101 Introduction to College Mathematics I
Mat 102 Introduction to College Mathematics II
Mat 105 College Algebra and Trigonometry
Mat 106 Foundations of Mathematics
Mat 107 Mathematics for the Management Sciences I
Mat 108 Mathematics for the Management Sciences II
Mat 121 Statistics
Mat 141 Calculus I
Mat 142 Calculus II
Mat 211 Linear Algebra
Mat 231 Concepts of Euclidean Geometry
Mat 241 Calculus III
Mat 242 Calculus IV
Mat 311 Algebra for Elementary Teachers
Mat 321 Combinatorics and Graph Theory
Mat 331 Geometry for Elementary Teachers
Mat 343 Differential Equations
Mat 350 Teaching Mathematics in Secondary Schools
Mat 351 Teaching Mathematics in Elementary Schools
Mat 401 History of Mathematics
Mat 405 Special Topics in Mathematics
Mat 411 Modern Algebra I
Mat 412 Modern Algebra II
Mat 414 Theory of Numbers
Mat 421 Mathematical Statistics I
Mat 422 Mathematical Statistics II
Mat 425 Numerical Analysis
Mat 427 Introduction to Optimization Techniques
Mat 431 Topics in Geometry
Mat 432 Topology
Mat 433 Differential Geometry
Mat 441 Advanced Calculus I
Mat 442 Advanced Calculus II
Mat 445 Complex Variables
Mat 490 Seminar in Mathematics

## COMPUTER SCIENCE

CSc 101 Introduction to Computers
CSc 102 Introduction to Computers —Business
CSc 201 Computer Organization and Programming
CSc 202 Algorithmic Languages and Compilers
CSc 305 Business Data Processing
CSc 311 Logic and Switching Theory
CSc 321 Information Processing
CSc 331 Computational Linguistics
CSc 350 Computers in Education
CSc 461 Monte Carlo Methods and Simulation

## DEPARTMENT OF NURSING

MRS. SCHOEL, *Chairman*

**ASSISTANT PROFESSORS**

KLINE
SCHOEL

For some years West Chester has offered two special curricula, cooperative in nature, which have enabled dental hygienists and public school nurses to obtain the degree of Bachelor of Science in Education. Contingent upon approval from the Pennsylvania Department of Education, the Department of Nursing will introduce a program leading to the Bachelor of Science in nursing, beginning in the fall semester of 1970. (Details about this new program are available from the department chairman, Schmucker Science Center.)

Although the program for dental hygienists continues to be offered, students are no longer being accepted into the school nurse program. Those currently enrolled will be able to complete the requirements by adjusting their schedules to summer study for the necessary courses in public school nursing. As soon as the College is able to do so, provisions for nurses interested in school nursing will be made within the contemplated generic four-year nursing program.

Nurses who hold a B.S. in Nursing and wish to achieve certification in public school nursing are advised to write to the Office of Undergraduate Studies for information.

### DEGREE PROGRAM FOR PUBLIC SCHOOL NURSING

*Note: New students are not being accepted for this program, which is maintained only for those enrolled as of the 1969-70 academic year.*

The degree of Bachelor of Science in Education will be conferred upon registered nurses who meet the following requirements: Satisfactory completion of a two-year associate degree program or a three-year diploma program in an approved school of nursing; registration by the State Board of Examiners for the Registration of Nurses in Pennsylvania; and 60 semester hours of credit distributed as shown.

### I General Requirements - - - - - 26 Semester Hours

Eng 102—English Composition II
Sph 101—Fundamentals of Speaking
Lit 121—General Literature I
*or*
Lit 122—General Literature II
His 101—History of Civilization I
*or*
His 102—History of Civilization II
His 211—History of U.S. I
PSc 231—American Government
Soc 231—Introduction to Sociology
Bio 100—Basic Biological Science
Psy 100—Introduction to Psychology

### II Professional Education - - - - - 12 Semester Hours

EdF 100—School and Society
EdP 250—Psychology of Learning and Development
EdC 150—Introduction to Guidance and Counseling
EdE 251—Human Development: Childhood
(*or*)
Psy 352—Child and Adolescent Psychology

### III Courses Related to Public School Nursing - - 17 Semester Hours

PSN 300—Public School Nursing
PSN 302—Public Health Nursing I
PSN 303—Public Health Nursing II
PSN 304—Foundations of Nutrition
PSN 306—Prevention and Control of Communicable Diseases
PSN 370—Mental Hygiene

### IV Electives - - - - - - - - - 5 Semester Hours

Choose any two of the following.

PSN 320—Problems in School Nursing
Phi 280—Introduction to Philosophy
Mus 121—Fine Arts (Music)
Art 101—Fine Arts (Art)
Mat 101—Introduction to College Mathematics I

Nurses with less than a three-year nurse's training preparation will be required to pursue additional courses to meet the requirements for the degree.

## DEGREE PROGRAM FOR DENTAL HYGIENISTS

The degree of Bachelor of Science in Education will be conferred upon dental hygienists meeting the following requirements:

1. The possession of a valid license to practice dental hygiene in the Commonwealth of Pennsylvania, issued by the State Dental Council and Examining Board and by the Pennsylvania Department of Education. The requirement for admission to the Dental Hygiene curriculum is the satisfactory completion of an approved dental hygienist course of instruction of two years' duration. Each year must be

composed of not less than 32 weeks, and each week must include not less than 30 hours of instruction. The requirement may also be met by equivalent instruction and graduation from a dental hygiene school approved by the State Council and Examining Board.

2. The satisfactory completion of 64 semester hours distributed as follows:

### I General Requirements - - - - - 44 Semester Hours

Eng 101—English Composition I
Eng 102—English Composition II
Sph 101—Fundamentals of Speaking
Lit 121—General Literature I
Lit 122—General Literature II
Art 101—Fine Arts (Art)
Mus 121—Fine Arts (Music)
Geo 101—World Geography
Geo 202—Geography of U.S. and Canada
His 101—History of Civilization I
His 102—History of Civilization II
PSc 231—American Government
Eco 201—Principles of Economics—Survey
His 211—History of the U.S. I
Soc 231—Introduction to Sociology

### II Professional Education - - - - - 11 Semester Hours

EdF 100—School and Society
Psy 100—Introduction to Psychology
EdM 300—Audio-Visual Education
EdP 250—Psychology of Learning and Development

### III Electives - - - - - - - - 9 Semester Hours

Electives may be chosen, with the approval of the Dean of Undergraduate Studies, from any academic field or curriculum offered at the College, for a total of not less than 9 credits. In either the General Requirements or Professional Education categories listed above, credit will be given for equivalent courses pursued in the two-year dental hygiene curriculum. In such instances, students must increase their electives by the number of semester hours so credited. In those cases in which dental hygienists have had less than two years of specialized training, the credit given will be proportional. To make up the deficiency, additional General Requirement courses in the College will be necessary.

Dental hygienists desiring to enroll in this program may obtain application blanks and information from the Director of Admissions.

# DEPARTMENT OF PHYSICS

DR. RICKERT, *Chairman*

**PROFESSORS**
RICKERT
SHOAF

**ASSOCIATE PROFESSORS**
HAWKES
KAPLAN
SKELTON
SMITH
YAROSEWICK

**ASSISTANT PROFESSOR**
SHIVERS (PART-TIME)

**INSTRUCTOR**
PLEMMONS (PART-TIME)

The concentration in physics begins with a look at the broad discipline. This is followed by a sequence including an introduction to modern physics, classical mechanics, and electricity and magnetism. Advanced courses permit students to develop a thorough understanding of the field. The calculus is a necessary mathematical tool for the study of physics at all levels.

## BACHELOR OF ARTS

### Physics

The B.A. program in physics enables the student to receive the basic preparation required for a variety of careers. Among these are college and university teaching and research and related service in industry and government. In all cases, the student receives a sound preparation for graduate study in physics. Capable graduates of this program are normally eligible for fellowships and assistantships when they enter graduate school. Candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

**I General Requirements - - - - - 62 Semester Hours**

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

The required 6 semester hours of foreign language through the intermediate level must be met in French, German, or Russian.

**II Science Core Requirements - - - - 20 Semester Hours**

| | | | |
|---|---|---|---|
| Mathematics (through Mat 343) | 9 semester hours | Astronomy or Geology | 3 semester hours |
| Chemistry | 8 semester hours | | |

### III Physics Concentration Requirements - - - 40 Semester Hours

Mat 141-142—Calculus I-II
(141 credited to General Requirements)
Phy 101-102—Physics I-II
Phy 212—Mechanics
Phy 233—Introduction to Modern Physics
Phy 251-252—Intermediate Physics Laboratory I-II
Phy 421—Electricity and Magnetism I
Phy 444—Physics Seminar
Phy 451—Advanced Physics Laboratory I

A minimum of 19 additional semester hours in physics must be chosen from available electives.

### IV Electives - - - - - - - - - 6 Semester Hours

A typical sequence of courses may be obtained from the Department.

## B.S. IN EDUCATION

### Physics

A student may qualify for the Pennsylvania Instructional I Certificate in physics by completing a minimum field requirement of 38 semester hours as indicated below. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

### I General Requirements - - - - - 56 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

### II Professional Education Requirements - - 28 Semester Hours

(See School of Education—locate by leafing to black bar on margin.)

### III Specialized Preparation - - - - - 38 Semester Hours

Mat 141—Calculus I
(credited to General Requirements)
Mat 142-241-242—Calculus II-III-IV
Che 103-104—General Chemistry I-II
(credited to General Requirements)
Phy 101-102—Physics I-II (Calculus)
*or*
Phy 103-104—General Physics I-II (Non-Calculus)
Phy 201—Intermediate Physics
*or*
Phy 212—Mechanics
Phy 233—Introduction to Modern Physics
Phy 251—Intermediate Physics Laboratory I
Phy 423—Electronics
Phy 444—Seminar in Physics
Sci 350—Teaching Science in Secondary Schools
(credited to Professional Education)
Electives in sciences—9 s.h.
(One course must be in physics.)

IV Electives - - - - - - - - - 6 Semester Hours

A typical sequence of courses may be obtained from the Department.

## OFFERINGS IN PHYSICS

Phy 100 Introduction to Physics
Phy 101 Physics I
Phy 102 Physics II
Phy 103 General Physics I
Phy 104 General Physics II
Phy 110 Acoustics for Speech and Hearing
Phy 201 Intermediate Physics
Phy 212 Mechanics
Phy 233 Introduction to Modern Physics
Phy 251 Intermediate Physics Laboratory I
Phy 252 Intermediate Physics Laboratory II
Phy 413 Analytical Dynamics
Phy 414 Heat and Thermodynamics
Phy 415 Mathematical Physics I
Phy 416 Mathematical Physics II
Phy 421 Electricity and Magnetism I
Phy 422 Optics
Phy 423 Electronics
Phy 424 Electricity and Magnetism II
Phy 432 Introduction to Nuclear Physics
Phy 440 Introduction to Research
Phy 444 Seminar in Physics
Phy 451 Advanced Physics Laboratory I
Phy 452 Advanced Physics Laboratory II

# School of Social and Behavioral Sciences

Byron Y. Fleck, *Dean*

Department of Business and Economics
Department of Geography
Department of History
Department of Political Science
Department of Psychology
Department of Sociology and Anthropology

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Following Alexander Pope's injunction that "The proper study of mankind is man," the School of Social and Behavioral Sciences accepts the responsibility for translating appropriate social science substance into meaningful and enriching learning experiences.

## BACHELOR OF ARTS

Economics
Geography
History
Political Science
Psychology
Sociology-Anthropology
Social Work

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

## BACHELOR OF SCIENCE IN EDUCATION

Geography
History
Comprehensive Social Studies

## DEPARTMENT OF BUSINESS AND ECONOMICS

DR. THORSON, *Chairman*

| PROFESSORS | ASSOCIATE PROFESSORS |
|---|---|
| SCHOOLER | BABSON |
| THORSON | HASSLER |
| | SYLVESTER |

The Department of Business and Economics offers two major specializations: a program in economics leading to a Bachelor of Arts degree and a program in business administration leading to a Bachelor of Science degree.

The B.A. in economics is designed for a broad understanding of the operation of the economic system and the role played by business, labor, and government. Careers lead to government, teaching, many areas of business, and to the graduate work necessary to become a professional economist.

The B.S. in Business Administration is designed for students preparing for positions in business and industry. It may be pursued in the daytime or in the evening. Students majoring in business administration elect one of the following areas of concentration: accounting, economics, or management.

### BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

**Concentrations:**

Accounting
Economics
Management

Candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

| | | |
|---|---|---|
| I | General Requirements - - - - - | 56 Semester Hours |
| | 1. SKILLS AND COMPETENCIES \| 18 semester hours | |
| | a. English Composition | 6 |
| | b. Speech | 2 |
| | c. Foreign Language | 6 |
| | d. Physical Education | 2 |
| | e. Health | 2 |

2. ARTS AND LETTERS | 12 semester hours

| | |
|---|---|
| a. Literature | 6 |
| b. Art or Music | 3 |
| c. Philosophy | 3 |

3. SOCIAL SCIENCES | 12 semester hours

| | |
|---|---|
| a. History | 6 |
| b. Psychology | 3 |
| c. Political Science | 3 |

4. SCIENCES | 14 semester hours

| | |
|---|---|
| a. Science (with lab) | 8 |
| b. Mathematics | 3 |
| c. Computer Science | 3 |

## II Business Administration Core Requirements - 36 Semester Hours

BAc 201–202—Principles of Accounting I-II 6
BAd 201—Business Organization and Management 3
BAd 221—Principles of Marketing 3
BAd 325—Corporation Finance 3
BLa 301—Business Law I 3
CSc 102—Introduction to Computers—Business 3
(credited to General Requirements)
Eco 231–232—Principles of Economics I-II 6
Eco 335—Money, Banking, and Fiscal Policy 3
Eco 339—Economic Statistics 3
Eng 230—Business Communications 3
(credited to General Requirements)
Mat 107–108—Mathematics for the Management Sciences I-II 6
(107 credited to General Requirements)
Mat 121—Statistics 3

## III Area of Concentration - - - - - 24 Semester Hours

Business administration majors select a concentration area of 24 semester hours, including Senior Seminar, from one of the following areas:

a. Accounting
b. Economics
c. Management

## IV Electives - - - - - - - - - 12 Semester Hours

Business administration majors are advised to elect supplementary courses from the following: CSc 201-305, Geo 203-308, and His 315.

A typical sequence of courses may be obtained from the Department.

## BACHELOR OF ARTS

### Economics

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to block bar on margin.)

II Social Science Core Requirements - - - 18 Semester Hours

His 211—History of U.S. I
His 212—History of U.S. II
Ant 231—Introduction to Anthropology
Eco 231—Principles of Economics I
Soc 231—Introduction to Sociology
Eco 400—Senior Seminar in Economics
Eco 232—Principles of Economics II
Eco 335—Money, Banking, and Fiscal Policy
Eco 339—Economic Statistics
Eco 340—Intermediate Economic Theory I
Mat 107-108—Mathematics for the Management Sciences I-II
(107 credited to General Requirements)
Mat 121—Statistics
—and additional economics electives to complete 30–36 semester hours in economics beyond the 6 hours in Core.

III Economics Concentration Requirements - 30–36 Semester Hours

IV Electives - - - - - - - - 12–18 Semester Hours

Economics majors are advised to elect supplementary courses from the following: BAc 201-202, BAd 221-344, BLa 301-302, CSc 102, Eco 347, Geo 203-308, and His 315.

A typical sequence of courses may be obtained from the Department.

## OFFERINGS IN BUSINESS AND ECONOMICS

### 1. Accounting

BAc 201 Principles of Accounting I
BAc 202 Principles of Accounting II
BAc 301 Intermediate Accounting
BAc 302 Managerial Accounting
BAc 303 Cost Accounting
BAc 304 Advanced Accounting
BAc 400 Senior Seminar in Accounting
BAc 401 Auditing I
BAc 402 Auditing II
BAc 403 Federal Taxation I
BAc 404 Federal Taxation II
BAc 410 Independent Studies in Accounting

(Continued)

### 2. Management

BAd 201 Business Organization and Management
BAd 202 Personnel Management
BAd 221 Principles of Marketing
BAd 322 Advertising and Sales Promotion
BAd 323 Production Planning and Control
BAd 324 Quality Control
BAd 325 Corporation Finance
BAd 326 Production Management
BAd 344 Investments
BAd 400 Senior Seminar in Management
BAd 401 Industrial Organization and Management
BAd 402 Organization Behavior and Management
BAd 405 Business Policy
BAd 406 Quantitative Business Analysis
BAd 407 Budgeting and Systems
BAd 410 Independent Studies in Management

### 3. Business Law

BLa 301 Business Law I
BLa 302 Business Law II

### 4. Economics

Eco 201 Principles of Economics—Survey
Eco 231 Principles of Economics I
Eco 232 Principles of Economics II
Eco 333 Consumer Economics
Eco 334 Industrial Relations
Eco 335 Money, Banking, and Fiscal Policy
Eco 336 Business and Government
Eco 337 Economic Growth and Development
Eco 338 International Economics
Eco 339 Economic Statistics
Eco 340 Intermediate Economic Theory I
Eco 341 Public Finance
Eco 342 Business Cycles
Eco 343 Comparative Economics since 1930
Eco 345 History of Economic Thought
Eco 346 Economy of Soviet Russia: Organization and Growth
Eco 347 Managerial Economics
Eco 348 Intermediate Economic Theory II
Eco 400 Senior Seminar in Economics
Eco 401 Quantitative Analysis
Eco 410 Independent Studies in Economics

### 5. Recommended Electives for Business Administration

CSc 201 Computer Organization and Programming
CSc 305 Business Data Processing
Sph 230 Business and Professional Speech Communication
Geo 203 Economic Geography
Geo 308 Trade and Transportation
His 315 Economic History of the United States

## DEPARTMENT OF GEOGRAPHY

DR. KEINARD, *Chairman*

**PROFESSORS**
KEINARD
LANGDON

**ASSOCIATE PROFESSORS**
BIELSKI
GRASSEL
HAWTHORNE
RAMPON
THOMPSON

**ASSISTANT PROFESSOR**
MORROW

**INSTRUCTOR**
DOUGHERTY

The basic objectives of study in geography at West Chester are threefold: (1) to serve the general education of all students, (2) to provide the specialized training needed for teaching geography, and (3) to supply the particular needs of students in the arts and sciences. The Department aims at helping students gain a full comprehension of the broad scope of man's physical environment and its relationships to cultural situations and problems. As a discipline, geography provides a way of organizing knowledge from various disciplines, and enables students to examine the integrated whole of a people in reference to their habitat and interspacial relationships.

### BACHELOR OF ARTS

#### Geography

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

II Social Science Core Requirements - - - 18 Semester Hours

His 211—History of U.S. I
His 212—History of U.S. II
Ant 231—Introduction to Anthropology
Eco 201—Principles of Economics—Survey
Soc 231—Introduction to Sociology
Geo 400—Senior Seminar in Geography

### III Geography Concentration Requirements - - 33 Semester Hours

*Required* — 21 hours
Group 1. Earth Sciences (9 hrs.)
Group 2. Economic Studies (3 hrs.)
Group 3. Regional Studies (3 hrs.)
Group 4. Cultural and Political Studies (3 hrs.)
Group 5. Techniques and Special Studies (3 hrs.)

*Geography Electives*
12 hours

### IV Electives - - - - - - - - - 15 Semester Hours

Geography majors are advised to elect supplementary courses from the following: Ant 333, PSc 335, Soc 332, and Soc 336.

A typical sequence of courses may be obtained from the Department.

## B.S. IN EDUCATION

### Geography

A student may qualify for the Pennsylvania Instructional I Geography Certificate by completing a minimum field requirement of 30 semester hours in geography. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

### I General Requirements - - - - - 56 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

### II Professional Education Requirements - - 28 Semester Hours

(See School of Education—locate by leafing to black bar on margin.)

### III Specialized Preparation - - - - - 30 Semester Hours

*Required* — 18 semester hours
Geo 100—Physical Geography
Geo 202—Geography of the United States and Canada
Geo 203—Economic Geography
Geo 205—Geomorphology
Geo 206—Meteorology: An Introduction to Climatology
Geo 211—Map Appreciation and Interpretation
Geo 311—Teaching Geography in Secondary Schools
(credited to Professional Education)

*Electives in geography or related fields*
12 semester hours

IV Electives - - - - - - - - - 14 Semester Hours

A typical sequence of courses may be obtained from the Department.

## OFFERINGS IN GEOGRAPHY

### 1. Earth Sciences

Geo 100 Physical Geography
Geo 205 Geomorphology
Geo 206 Introduction to Climatology
Geo 301 Introduction to Physical Geology
Geo 302 Climatology

### 2. Economic Studies

Geo 201 Conservation of Natural Resources
Geo 203 Economic Geography
Geo 212 Geography of Modern Industry and Commerce
Geo 308 Trade and Transportation
Geo 414 Urban and Regional Planning

### 3. Regional Studies

Geo 202 Geography of U.S. and Canada
Geo 204 Geography of Pennsylvania
Geo 207 Geography of Europe
Geo 208 Geography of Latin America
Geo 304 Geography of Asia
Geo 305 Geography of the Far East
Geo 306 Geography of Africa
Geo 307 Geography of the U.S.S.R.
Geo 314 Geography of the U.S. and Pennsylvania
Geo 412 Geography of Australia and Associated Islands

### 4. Cultural and Political Studies

Geo 200 Geography of World Cultures
Geo 209 The U.S. in its Global Relationships
Geo 210 Geographic Influences in American History
Geo 309 World Problems in Geography
Geo 313 Geography of Population
Geo 316 Political and Military Geography of the U.S.

### 5. Techniques and Special Studies

Geo 211 Map Appreciation and Interpretation
Geo 303 Cartography
Geo 310 Geography Field Study Methods
Geo 311 Teaching Geography in Secondary Schools
Geo 315 Aerial Photographic Interpretation
Geo 400 Senior Seminar in Geography
Geo 410 Independent Studies in Geography
Geo 415 Geography Area Field Courses I, II, and III
Geo 416 Seminar in Special Studies in Geography

### 6. General

Geo 101 World Geography

## DEPARTMENT OF HISTORY

DR. CARLSON, *Chairman*

**PROFESSORS**
CARLSON
EVERETT
FLECK
FOSTER
FOX
JOHNSON
HARDING
HOUPT
RILEY
SCHALCK
SOLDON
STUART
SWAN
TURNER

**ASSOCIATE PROFESSORS**
CROWLEY
KAY
MORGAN
SESSA
SHAFFER
SHUR
WEBSTER
YOUNG

**ASSISTANT PROFESSORS**
AIZUPITIS
BRADSHAW
BURGWIN
DOYLE
IVINS
O'GRADY

The student of history seeks to recreate the past (or, more precisely, as much of it as is possible) not only rationally to explain and understand the past for its own sake, but also to identify himself and this age with earlier times. He is concerned with the origins and development of and relationships between past men and events and, from the multiplicity of credible and sometimes conflicting evidence, renders judgments on causation and consequences. He seeks to achieve a sense of the past. Among the careers open to history majors are the law, government service, teaching, research, journalism, and business. Indeed, a strong preparation in history can lead to possibilities in virtually every field of endeavor.

### BACHELOR OF ARTS

#### History

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

1 General Requirements - - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

II Social Science Core Requirements - - - 24 Semester Hours

His 111—Western Civilization to 1300 A.D.
His 112—Western Civilization, 1300-1815
(111-112 credited to General Requirements)
His 113—Western Civilization, 1815-Present
His 114—The Non-Western World
His 211—History of U.S. I
His 212—History of U.S. II
Ant 231—Introduction to Anthropology
Eco 201—Principles of Economics—Survey
Soc 231—Introduction to Sociology
His 400—Senior Seminar in History

III History Concentration Requirements - - 18 Semester Hours

Group 1 American History (6 hrs.)
Group 2 European History (3 hrs.)
Group 3 World and Regional History (3 hrs.)
*History Electives* (6 hrs.)

IV Electives - - - - - - - - 24 Semester Hours

A typical sequence of courses may be obtained from the Department.

## B.S. IN EDUCATION DEGREES

### A. Comprehensive Social Studies

A student may qualify for the Pennsylvania Instructional I Comprehensive Social Studies Certificate by completing a minimum of 24 semester hours in history, and a minimum of 24 semester hours in the other social sciences. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I General Requirements - - - - - 56 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

II Professional Education Requirements - - - 28 Semester Hours

(See School of Education—locate by leafing to black bar on margin.)

III Specialized Preparation - - - - - 36 Semester Hours

*Required*

His 101—History of Civilization I
His 102—History of Civilization II
(101-102 credited to General Requirements)
His 211—History of U.S. I
His 212—History of U.S. II
PSc 231—American Government
(credited to General Requirements)

(Continued)

Eco 201—Principles of Economics—Survey
Soc 231—Introduction to Sociology
Ant 231—Introduction to Anthropology
SSc 331—Teaching Social Studies in Secondary Schools
(credited to Professional Education)
His 400—Senior Seminar in History

*Restricted Electives*

*History*: 9 semester hours distributed equally in Groups 1, 2, and 3.

*Social Sciences*: 9 semester hours under advisement.

IV Electives - - - - - - - - - 8 Semester Hours

A typical sequence of courses may be obtained from the Department.

## B. History

### (American History or World Cultures)

A student may qualify for the Pennsylvania Instructional I Certificate in history by completing a minimum of 36 semester hours in history and a minimum of 12 semester hours in the other social sciences. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I General Requirements - - - - - 56 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

II Professional Education Requirements - - - 28 Semester Hours

(See School of Education—locate by leafing to black bar on margin.)

III Specialized Preparation - - - - - 36 Semester Hours

*Required*

His 111—Western Civilization to 1300 A.D.
His 112—Western Civilization, 1300-1815
(111-112 credited to General Requirements)
His 113—Western Civilization, 1815-Present
His 114—The Non-Western World
His 211—History of U.S. I
His 212—History of U.S. II
PSc 231—American Government
(credited to General Requirements)
Eco 201—Principles of Economics—Survey
SSc 331—Teaching Social Studies in Secondary Schools
(credited to Professional Education)
His 400—Senior Seminar in History

*Restricted Electives*

(History majors select a concentration area in American History *or* World Cultures.)

| AMERICAN HISTORY CONCENTRATION | Hours | WORLD CULTURES CONCENTRATION | Hours |
|---|---|---|---|
| His 313—History of Pennsylvania | 3 | Ant 231—Introduction to Anthropology | 3 |
| History electives from Group 1 | 9 | History electives: Group 1 | 6 |
| History elective from Group 2 or 3 | 3 | Group 2 | 3 |
| Elective: Social Sciences | 3 | Group 3 | 6 |

**IV Electives - - - - - - - - - 8 Semester Hours**

A typical sequence of courses may be obtained from the Department.

## OFFERINGS IN HISTORY

### 1. AMERICAN HISTORY

His 211 History of U.S. I
His 212 History of U.S. II
His 313 History of Pennsylvania
His 314 Diplomatic History of U.S.
His 315 Economic History of U.S.
His 316 History of the American Frontier
His 317 History of American Science and Technology
His 318 Constitutional History of U.S.
His 319 Social and Cultural History of U.S.
His 320 History of the South
His 339 History of the Afro–American

### 2. EUROPEAN HISTORY

His 112 Western Civilization, 1300-1815
His 113 Western Civilization, 1815-Present
His 219 Medieval Europe
His 220 Renaissance and Reformation
His 331 History of England to 1688
His 332 History of England since 1688
His 340 Modern Germany
His 350 Russian History to 1917
His 351 Soviet Russia
His 360 Diplomatic History of Europe since 1815

### 3. WORLD AND REGIONAL HISTORY

His 101 History of Civilization I
His 102 History of Civilization II
His 111 Western Civilization to 1300 A.D.
His 114 The Non-Western World
His 218 The Ancient World
His 322 History of South Asia
His 323 History of the Middle East
His 325 History of the 20th Century World
His 328 History of Modern Africa
His 329 History of East Asia
His 333 History of Latin America to 1825
His 334 History of Latin America Since 1825

## DEPARTMENT OF POLITICAL SCIENCE

DR. HARDING, *Chairman*

**PROFESSOR**
HARDING

**ASSOCIATE PROFESSORS**
BRADY
BURNS
BURTON
ELDREDGE
SHEA

**ASSISTANT PROFESSOR**
MILNE

**INSTRUCTOR**
IACONO

Political science systematically investigates the theory and practice of politics and levels of government—domestic, foreign, and international. Depending on the area, emphasis may be on the philosophical study of the nature of government and politics, on the political behavior of individuals or groups, or on the role of political and governmental institutions. Careers are open to majors in research, teaching, administration, personnel work, public relations, journalism, and government at home and abroad. A B.A. program in political science is especially important for the pre-law student, or the student who desires to teach political science at the college level.

### BACHELOR OF ARTS

#### Political Science

Candidates must satisfactorily complete a minimum of 128 hours, distributed among four areas as follows:

I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

II Social Science Core Requirements - - - 18 Semester Hours

His 211—History of U.S. I
His 212—History of U.S. II
Ant 231—Introduction to Anthropology
Eco 201—Principles of Economics—Survey
Soc 231—Introduction to Sociology
PSc 400—Senior Seminar in Political Science

### III Political Science Concentration Requirements - 24-30 Semester Hours

PSc 201—Introduction to Political Science
PSc 333—International Politics
PSc 338—Introduction to Political Thought
PSc 339—Elements of Public Administration
PSc 332—Governments and Politics of Western Europe
*or*
PSc 351—The Politics of the Non–Western Areas
—and additional political science electives to complete 24-30 semester hours in political science beyond the 3 hours in Core.

### IV Electives - - - - - - - - 18-24 Semester Hours

Political science majors are especially advised to elect supplementary courses from the following: Eco 336, Eco 338, His 314, His 318, Mat 121, and Soc 336.

A typical sequence of courses may be obtained from the Department.

## OFFERINGS IN POLITICAL SCIENCE

PSc 201 Introduction to Political Science
PSc 231 American Government
PSc 331 State and Local Government
PSc 332 Governments and Politics of Western Europe
PSc 333 International Politics
PSc 334 American Political Parties
PSc 335 American Political Ideas
PSc 336 Soviet Government and Politics
PSc 337 American Foreign Policy
PSc 338 Introduction to Political Thought
PSc 339 Elements of Public Administration
PSc 340 American Constitutional Law
PSc 341 International Law
PSc 342 Public Opinion and Propaganda
PSc 343 Municipal Government
PSc 351 The Politics of the Non–Western Areas
PSc 352 Civil Liberties and Civil Rights
PSc 400 Senior Seminar in Political Science
PSc 410 Independent Studies in Political Science

## DEPARTMENT OF PSYCHOLOGY

DR. CLARK, *Chairman*

**PROFESSORS**
CLARK
GREGG
MILGRAM
PORTER
SANDS
SHINEHOUSE

**ASSOCIATE PROFESSORS**
FELDMAN

**ASSISTANT PROFESSORS**
MORSE
POTTIEGER

**INSTRUCTOR**
LINK

The psychologist endeavors to apply scientific processes in order to explain, predict, and in some cases control human behavior. A bachelor's degree in psychology should prepare the student to understand those variables, such as heredity, learning, and the environment, which shape and change behavior. Careers are possible in clinics, guidance centers, industry, hospitals, schools, and government.

### BACHELOR OF ARTS

#### Psychology

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

**I General Requirements - - - - - 62 Semester Hours**

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

**II Social Science Core Requirements - - - 18 Semester Hours**

His 211—History of U.S. I
His 212—History of U.S. II
Ant 231—Introduction to Anthropology
Eco 201—Principles of Economics—Survey
Soc 231—Introduction to Sociology
Psy 400—Senior Seminar in Psychology

**III Psychology Concentration Requirements - 24–30 Semester Hours**

Psy 354—Social Psychology
Psy 355—Experimental Psychology
Psy 356—The Study of Personality
Psy 375—Abnormal Psychology
—and additional psychology electives to complete 24-30 semester hours in psychology beyond the 3 hours in Core.

IV Electives - - - - - - - - 18-24 Semester Hours

Psychology majors are especially advised to elect supplementary courses from the following: Ant 331, Bio 262, Mat 121, and Soc 338.

A typical sequence of courses may be obtained from the Department.

### OFFERINGS IN PSYCHOLOGY

Psy 100 Introduction to Psychology
Psy 241 Psychology of Exceptional Children
Psy 243 Psychology of the Mentally Retarded
Psy 352 Child and Adolescent Psychology
Psy 354 Social Psychology
Psy 355 Experimental Psychology
Psy 356 The Study of Personality
Psy 361 Applied Psychology
Psy 362 History of Psychology
Psy 363 Psychology of Learninug
Psy 364 Physiological Psychology
Psy 370 Mental Hygiene
Psy 375 Abnormal Psychology
Psy 400 Senior Seminar in Psychology
Psy 410 Independent Studies in Psychology
Psy 415 Verbal Behavior
Psy 420 Statistics for the Behavioral Sciences
Psy 425 Psychological Testing and Measurement
Psy 430 Human Sexual Behavior
Psy 470 Psychology of Perception and Cognition

## DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

DR. SAMUELSON, *Chairman*

PROFESSOR
SAMUELSON

ASSOCIATE PROFESSOR
BECKER

ASSISTANT PROFESSORS
BRAM
COWEN

LAURENSON (PART-TIME)
MURPHY
VAN NESS

Man creates culture, culture creates man. It is to the interplay of these two that sociology and anthropology address themselves. The sciences of human society study the structuring and functioning of groups in determining human behavior and interpreting social phenomena objectively. These disciplines aim to understand man: his biological and cultural development. Careers for the major are in teaching; local, state, and national governmental agencies; criminology and penology; social service and personnel work; public relations; social work; children's agencies; juvenile and family courts, and many others.

## BACHELOR OF ARTS DEGREES

### A. Sociology-Anthropology

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

**I General Requirements - - - - - 62 Semester Hours**

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

**II Social Science Core Requirements - - - 18 Semester Hours**

His 211—History of U.S. I
His 212—History of U.S. II
Ant 231—Introduction to Anthropology
Eco 201—Principles of Economics—Survey
Soc 231—Introduction to Sociology
Soc or Ant 400—Senior Seminar in Sociology or Anthropology

**III Sociology-Anthropology Concentration Requirements - - - - - - 24-30 Semester Hours**

Soc 337—Sociological Theory
Soc 339—Social Stratification
Ant 331—Human Evolution
Ant 332—Social Organization
—and additional sociology and anthropology electives to complete 24-30 semester hours in sociology and anthropology beyond the 9 hours in Core.

**IV Electives - - - - - - - - 18-24 Semester Hours**

Sociology-anthropology majors are especially advised to elect supplementary courses from the following: Psy 354, 356, 375, and 420.

A typical sequence of courses may be obtained from the Department.

### B. Social Work

Candidates for the B.A. degree in Social Work must satisfactorily compete a minimum of 128 semester hours, distributed among four areas as follows:

**I General Requirements - - - - - 62 Semester Hours**

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

### II Social Science Core Requirements - - - 18 Semester Hours

His 211—History of U.S. I
His 212—History of U.S. II
Ant 231—Introduction to Anthropology
Eco 201—Principles of Economics—Survey
Soc 231—Introduction to Sociology
Soc 400 or Psy 400—Senior Seminar in Sociology or Psychology

### III Social Work Concentration Requirements - - 36 Semester Hours

Eco 333—Consumer Economics
Eco 334—Industrial Relations
Soc 339—Social Stratification
Soc 340—Introduction to Social Work
Psy 354—Social Psychology
Psy 356—The Study of Personality
— and additional electives distributed equally from economics, sociology, and psychology to complete 36 hours beyond Core requirements.

### IV Electives - - - - - - - - - 12 Semester Hours

Social Work majors are especially advised to elect supplementary courses from the following: Eco 336, PSc 331, PSc 339, Psy 370, Soc 332, and Soc 336.

A typical sequence of courses may be obtained from the Department.

## OFFERINGS IN SOCIOLOGY—ANTHROPOLOGY

### ANTHROPOLOGY

Ant 231 Introduction to Anthropology
Ant 331 Human Evolution
Ant 332 Social Organization
Ant 333 Cultural Dynamics
Ant 334 World Ethnography
Ant 335 Personality and Culture
Ant 336 Social Anthropology
Ant 340 Introduction to Linguistics
Ant 380 Language and Culture
Ant 400 Senior Seminar in Anthropology
Ant 403 Primitive Art
Ant 410 Independent Studies in Anthropology

### SOCIOLOGY

Soc 231 Introduction to Sociology
Soc 332 Contemporary Social Problems
Soc 333 The Family
Soc 334 Juvenile Delinquency
Soc 335 Racial and Cultural Minorities
Soc 336 Urban Sociology
Soc 337 Sociological Theory
Soc 338 Criminology
Soc 339 Social Stratification
Soc 340 Introduction to Social Work
Soc 341 Social Change
Soc 342 Community Analysis and Applied Social Change
Soc 343 Sociology of Small Groups
Soc 344 Sociology of Complex Organizations
Soc 400 Senior Seminar in Sociology
Soc 410 Independent Studies in Sociology

# Interdisciplinary Programs

West Chester also offers the Bachelor of Arts in three interdisciplinary programs: American Studies, Latin-American Studies, and Russian Studies.

The American Studies Program explores American art, economics, government, history, literature, music, philosophy, psychology, and sociology in interpreting American culture.

The Latin-American Studies Program is integrated and interdepartmental, involving economics, literature, art, music, foreign language, geography, history, political science, sociology-anthropology, and education.

The Russian Studies Program is designed to give a solid background in Russian language, literature, history, government, economics, geography, sociology–anthropology, education, art, and music.

## AMERICAN STUDIES

Candidates for the B.A. degree in American Studies must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

II Required Core - - - - - - - - 30 Semester Hours

1. Introduction to American Studies Seminar 3
2. American Literature (Lit 223, Lit 224) 6
3. American History (His 211, His 212) 6
4. Senior Seminars in American Studies 6
5. Three courses in Art, Music, Philosophy 9
   (Art 408, Mus 322, Phi 374 or Phi 484)

III Specialization - - - - - - - - 18 Semester Hours

1. Two courses in American History area 6
   (His 314, His 315, His 316, His 317, His 318, His 319, His 320, His 331, His 332, or His 339)
2. Two courses in American Literature and Language area 6
   (Lit 340, Lit 344, Lit 348, Lit 357, Lit 372, Lit 374, Lit 385, Eng 319, or Hum 400)

3. Two courses in Social or Behavioral Sciences 6

(Ant 332, Eco 334, EdF 100, Geo 202, Geo 209, Geo 210, Geo 316, PSc 331, PSc 334, PSc 335, Psy 354, or Soc 332)

IV Electives - - - - - - - - - 18 Semester Hours

(From any of the above areas or general curricula.)

*Note*: Students may obtain more detailed information about the American Studies program from the Dean of the School of Arts and Letters or the Dean of the School of Social and Behavioral Sciences.

## LATIN-AMERICAN STUDIES

Candidates for the B.A. degree in Latin-American studies must satisfactorily complete a minimum of 128 semester hours, distributed among three areas as follows:

I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bar on margin.)

II Required Core For Specialization - - - 42 Semester Hours

1. Spanish Language 6
   (6 hours beyond the intermediate level)
2. Spanish–American Literature 6
3. Latin–American History 6
4. Latin–American Government 3
5. Latin–American Geography 3
6. Latin–American Economics 3
7. Latin–American Sociology-Anthropology 3
8. Latin–American Education 3
9. Latin-American Fine Arts (Art or Music) 3
10. Seminars 6

III Electives - - - - - - - - - 24 Semester Hours

*Note*: Spanish-language majors interested in this program should consult with the Chairman of the Department of Foreign Languages. All students may obtain more detailed information about the Latin-American Studies program from the office of the Dean of the School of Arts and Letters or the Dean of the School of Social and Behavioral Sciences.

## RUSSIAN STUDIES

Candidates for the B.A. degree in Russian Studies must satisfactorily complete a minimum of 128 semester hours, distributed among three areas as follows:

I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study—locate by leafing to black bor on margin.)

II Required Core for Specialization - - 45 Semester Hours

| | | |
|---|---|---|
| 1. | Russian Language (6 hours beyond the intermediate level) | 6 |
| 2. | Russian Literature | 6 |
| 3. | Russian History | 6 |
| 4. | Russian Government | 6 |
| 5. | Russian Geography | 3 |
| 6. | Russian Economics | 3 |
| 7. | Russian Sociology-Anthropology | 3 |
| 8. | Russian Education | 3 |
| 9. | Russian Fine Arts (Art or Music) | 3 |
| 10. | Seminars | 6 |

III Electives - - - - - - - - - 21 Semester Hours

*Note*: Russian-language majors interested in this program should consult with the Chairman of the Department of Foreign Languages. All students may obtain more detailed information about the Russian Studies program from the office of the Dean of the School of Arts and Letters or the Dean of the School of Social and Behavioral Sciences.

# Course Descriptions

Course descriptions are arranged alphabetically by field. Semester hours are indicated by a numeral in parentheses, immediately following a title.

ACCOUNTING See Department of Business and Economics

ANTHROPOLOGY See Department of Sociology and Anthropology

## DEPARTMENT OF ART

Daniel L. Kuruna, *Chairman*

### Art 101 Fine Arts [Art] (3)

Introduction to visual arts (painting, architecture, sculpture, and minor arts). Includes survey of historical styles and presentation of psychology of visual perception and expression.

### Art 106 Drawing I: Perspective, Proportion, Composition (3)

An introduction to the art of drawing, with emphasis on line, form, mass; experimentation with a variety of media.

### Art 107 Drawing II: Advanced Techniques and Problems (3)

Advanced problems in drawing; further exploration of and experimentation with materials and techniques in drawing.

### Art 111 Design I: Color Theory and Two-Dimensional Techniques (3)

Studio experimentation with the elements of art principles and their application to color theory and two-dimensional problems.

**Art 112 Design II: Three-Dimensional Techniques (3)**
Problems in techniques involving three-dimensional forms. Includes packaging, display, and promotional art.

**Art 211 Design: Communication Techniques, Lettering, Layout (3)**
Exploration of the visual-design aspects of layouts and lettering for communication.

**Art 216 Painting I: Fundamental Techniques—Basic Composition (3)**
Explores a variety of media and techniques including oil, tempera, and acrylic. Content varies from representational to abstract.

**Art 217 Painting II: Concepts of Visual Imagery (3)**
An advanced approach to painting in which all projects undertaken are pursued in depth.

Note: *Students may begin their experience in sculpture by selecting either Art 221 or Art 222 as their first course.*

**Art 221 Sculpture I: Subtractive Techniques (3)**
Experience in designing three-dimensional forms and chiseling or carving wood, clay, and stone.

**Art 222 Sculpture II: Additive Techniques (3)**
A basic exploration of the new additive sculpture, using metals, plastics, plaster, woods, and assemblage techniques. Purpose of form is stressed.

**Art 226 Water Color: Basic Water-Based Techniques (3)**
A water color course which deals with transparencies, gouache, and mixed media. Work from still life, landscape, and imagination.

**Art 227 Water Color: Intermediate Water-Based Techniques (3)**
Extension and further exploration of the water color media. Traditional, current, and experimental approaches are pursued, with emphasis on design and expressive content.

**Art 231 Ceramics I: Basic Techniques and Glaze Calculations (3)**
An understanding of basic materials, techniques, and processes involved in ceramics. Introduction to hand and wheel methods of construction; knowledge of clay bodies, glazes, and kiln firing. Emphasis on design as an organic outgrowth of the ceramic process.

**Art 232 Ceramics II: Intermediate Techniques and Glaze Calculations (3)**
Fundamental methods of creating clay forms on the potter's wheel. Experimentation with glazes, clay bodies, and the operation of ceramic kilns. Emphasis on creative design.

### Art 241 Graphics I (3)

An introduction to the various media of the graphic arts: linoleum cuts, woodcuts, and serigraphy.

### Art 242 Graphics II (3)

Graphic–art concepts and techniques in etching and lithography.

### Art 251 Art in the Elementary School I (3)

An introduction to the teaching of art in the elementary school through curriculum study, philosophy, and workshop experience with materials and techniques.

### Art 252 Art in the Elementary School II (3)

Organization and development of programs in art education in grades K-6. Emphasis on understanding the creative act of the young learner.

### Art 256 Art in Elementary Education (3)

The role of art in elementary education, with a concern for the interaction of teacher, student, and society in the development of the visual experience.

### Art 261 Arts and Crafts: Recreation (3)

The practical application in project form of craft materials and methods, using media of utilitarian and commercial origin.

### Art 263 Arts and Crafts: Special Education (3)

Creative work in a variety of activities with arts and crafts materials for special-education classes.

### Art 266 Crafts: Three-Dimensional Media for Elementary Education (3)

Creative work in a variety of activities with arts and crafts materials. Emphasis on the application of art to activities in the classroom.

### Art 316 Painting: Advanced Painting Problems (3)

Emphasis on creative exploration of materials and techniques. The student explores personal ideas and styles. Use of a variety of personal subject matter.

### Art 317 Painting: Head and Figure (3)

Basic understanding of the elements of realistic painting. Students work directly from life. Various techniques, including underpainting, are studied.

### Art 321 Sculpture: Advanced Subtractive Techniques (3)

A concentrated course offering advanced work in wood, alabaster, and Carrara marble. Individual interpretation with emphasis on creative expression.

### Art 322 Sculpture: Advanced Additive Techniques (3)

Advanced exploration of meanings and techniques used in the additive approach to sculptural form.

### Art 331 Ceramics: Advanced Techniques and Glaze Calculations (3)

An advanced course to develop craftsmanship and explore clay as a means of individual expression. Experimentation with formulating glazes and clay bodies.

### Art 332 Ceramics: Kiln Construction (3)

For advanced students who want to study and analyze the construction and operation of the kiln.

### Art 345 Graphics: Independent Studies (3)

An opportunity for personal pursuit and research of the student's favorite graphic media.

### Art 346 Crafts: Jewelry and Metalwork (3)

An introduction to experience with precious and non-precious metals.

### Art 381 Near Eastern Art: Ancient Antiquity (3)

Originating loci for the art forms and ideas of Classical and Oriental cultures, comprising Sumeria, Babylonia, Assyria, Egypt, and various Semitic groups, culminating in the Judaic tradition.

### Art 382 Western Art I: Classical Antiquity (3)

Analysis of Graeco-Roman cultures in the light of proto-Classical (Minoan, Mycenaean, and Etruscan) forms and ideas as derived from Danubian Neolithic and Near East sources.

### Art 383 Western Art II: Middle Ages (3)

Analysis of the cross-currents and main thrust of art development through religious beliefs of Byzantium, Roman Christianity, Germanic Nomads, and Islam.

### Art 384 Western Art III: Renaissance-Baroque (3)

Analysis of art forms in the light of the Copernican Revolution; disruption of and reorientation to the Classical order and Christian belief.

### Art 385 Western Art IV: Romanticism (3)

Analysis of the major period of anti-Classicism and the development of Romantic sensibility. Attention given to rational-mechanistic and intuitive-organic concepts of the universe and creativity.

### Art 401 History of Aesthetics and Art Criticism (3)
The various philosophic theories of art and art products. An attempt is made not only to relate these theories to the senses and form itself but also to technical, psychological, and cultural values.

### Art 402 Aesthetics: Contemporary Art Forms (3)
Analysis of the meaning behind the "chaotic" multiforms of the twentieth century. Comparison of visual expressions with the manifestos and essays as they parallel innovations in style and ideas.

### Art 403 [Also Ant 403] Primitive Art (3)
Analysis of primitive art as determined principally through ritual and myth. Focus of content divided among the following: prehistory to early Ancient Near East; contemporary primitive cultures; psychoanalytical interpretation; and contemporary primitivistic interests of the West.

### Art 405 Russian Art: Revolution vs. Tradition (3)
Russian art forms as they reflect the conflict between religious idealism and social realism. Emphasis on the nineteenth and twentieth century developments.

### Art 407 Oriental Art (3)
Analysis of art forms in the context of Eastern philosophy. Main emphasis on India, China, and Japan. Emphasis on East-West similarities and dichotomies.

### Art 408 Arts of the U.S.: Material Culture I (3)
Colonial Revolution. Cultural approach to development of American values related to visual expression. Oriented to American studies; a cross-study analysis of the impact of image and object on folk and elite tradition.

### Art 409 Arts of the U.S.: Material Culture II (3)
Continuation of Art 408. Post Colonial Revolution through World War I.

### Art 411 Latin-American Art (3)
An analysis of the impact of Renaissance-Baroque forms and Counter-Reformation theology on native traditions and expressions in the new world. The evolution of twentieth century forms as a synthesis of these two culturally different traditions.

### Art 414 Research and Methodology (1)
Introduction to the methods and bibliography of the art history program.

ASTRONOMY See Department of Earth, Space, and General Sciences

## DEPARTMENT OF BIOLOGY

Relis B. Brown, *Chairman*

### Bio 100 Basic Biological Science (4)

Basic principles of biology. Cell theory, energy metabolism, genetics, development, diversity of life forms, and ecology. Not open to biology majors. Three hours lecture and two hours lab.

### Bio 111 Botany I (4)

Flowering plants. Structure and life process of plant cells, leaves, stems, roots, flowers, seeds, and fruits. Economic importance of plants used by man; recognition and classification of seed plants in the immediate environs of the College. Three hours lecture and three hours lab.

### Bio 112 Botany II (4)

Non-flowering plants. The structure and life processes of selected algae, bacteria, fungi, mosses, ferns, and their allies. Economic importance and health implications of some of these groups. Three hours lecture and three hours lab.

### Bio 141 Zoology I (4)

Representative life forms from each of the invertebrate phyla. Structure, function, origin, development, economic importance, and biological significance. Three hours lecture and three hours lab.

### Bio 142 Zoology II (4)

Chordates in general, and more particularly the classes of vertebrates. Structure, function, origin, development, economic importance, and biological significance. Three hours lecture and three hours lab.

### Bio 210 Field Botany (3)

Methods of studying plants in their natural surroundings. Use of keys, botanical manuals, and illustrated floras to identify living specimens. Two hours lecture and three hours lab. *Prereq*: Bio 100 or 111.

### Bio 241 Field Zoology (3)

Animal life in the surrounding localities. Use of keys, charts, books, and museum specimens to identify and classify various animals. Two hours lecture and three hours lab. *Prereq*: Bio 100 or one semester of zoology.

### Bio 242 Ornithology (3)
Introduction to the birds of Pennsylvania with emphasis on field identification. Classification, migration, songs, courtship, nesting, care of young, and plumage changes. Two hours lecture and three hours lab. *Prereq*: Bio 100 or one semester of zoology.

### Bio 243 Comparative Anatomy (3)
Comparative anatomical study of organ systems and evolutionary development of the classes of chordates. Two hours lecture and three hours lab. *Prereq*: Bio 142.

### Bio 260 Anatomy of Speech and Hearing Mechanisms (3)
For majors in speech pathology and audiology. Emphasis is given to the neurological, respiratory, and skeleto-muscular implications of human anatomy involved in communication skills. Two hours lecture and two hours lab. *Prereq*: Bio 100.

### Bio 261 Human Anatomy (4)
Structure of man; emphasis on the skeletal and muscular systems. Three hours lecture and two hours lab.

### Bio 262 Human Physiology (4)
Basic human functions with special emphasis on the circulatory, respiratory, and nervous systems. Three hours lecture and two hours lab.

### Bio 300 Basic Genetics (3)
A course for non-major students. Mendelian laws of inheritance. Cell structure, cell division, mechanics of monohybrid and dihybrid crosses, linkage, crossing-over, and probability. Practical applications to elementary teaching. Two hours lecture and three hours lab. *Prereq*: Bio 100.

### Bio 301 Genetics (3)
Laws of heredity in plants, animals and man. Cell structure, Mendelian inheritance, eugenics, linkage, probability, crossing-over, and random assortment. Two hours lecture and three hours lab. *Prereq*: 8 hours of biology.

### Bio 302 Ecology (3)
Relationship between living things and their environment approached through the study of individual ecosystems. The aquatic, the forest, the field and the city ecosystems. Two hours lecture and three hours lab. *Prereq*: 8 hours of biology or permission of the instructor.

### Bio 303 Basic Ecology (3)
A course for non-major students. The relationship between living things and their environments. Practical applications to the elementary school program. Two hours lecture and three hours lab. *Prereq*: Bio 100.

### Bio 310 Bacteriology (3)

Microscopic forms of life commonly encountered in biological work. Culture techniques and physiological processes of microorganisms. Two hours lecture and three hours lab. *Prereq*: Bio 111, 112, 141, 142.

### Bio 340 Basic Entomology (3)

A course for non-major students. Insects commonly found in Pennsylvania. Collection and identification of the larger and more colorful specimens. The use of insects in the elementary school program. Two hours lecture and three hours lab. *Prereq*: Bio 100.

### Bio 341 Entomology (3)

Insects: their structure, functions, classification, economic importance, and biological significance. Two hours lecture and three hours lab. *Prereq*: Bio 141.

### Bio 343 Physiological Chemistry (3)

The chemistry of living processes. Biologically important compounds and their metabolism. Two hours lecture and three hours lab. *Prereq*: Che 230 or 231.

### Bio 344 General Physiology (3)

General principles of physiology. Concept of homeostasis; nature of protoplasm, acid-base balance, bioenergetics, electrophysiology, and enzyme activity. Two hours lecture and three hours lab. *Prereq*: Che 230 or 231, Bio 141, 142, Mat 105 or equivalent.

### Bio 345 Plant Physiology (3)

Physiological processes of plants. Photosynthesis, respiration, intermediate metabolism, entrance of solutes into the plant, water metabolism, and growth regulators. Two hours lecture and three hours lab. *Prereq*: Bio 111, 112, Che 230 or 231.

### Bio 346 Plant Structure (3)

Microscopic examination of plant cells. Interrelationship of cells, function of cells, and variations of cell anatomy. Two hours lecture and three hours lab. *Prereq*: Bio 111, 112.

### Bio 351 Embryology (3)

Introduction to principles of animal development; laboratory study of vertebrate embryos. Two hours lecture and three hours lab. *Prereq*: Bio 141, 142, Che 104.

### Bio 355 Wildlife Conservation (3)

Principles of conservation of plant and animal resources. Collateral reading assignments. *Prereq*: Bio 100 or one semester of botany or zoology.

**Bio 402 Cytology (3)**
Intracellular organization of plant and animal cells, correlated with structure, chemical constitution, and function. Two hours lecture and three hours lab. *Prereq*: Bio 111, 112, 141, 142, Che 103, 104.

**Bio 411 Plant Taxonomy (3)**
Principles of taxonomy applied to the practical experience of plant identification. Modern concepts of biosystematics. Two hours lecture and three hours lab. *Prereq*: Bio 111, 112.

**Bio 450 Biology Seminar (1)**
Reports on special topics and current developments in the biological sciences. *Prereq*: 22 hours in biology.

**Bio 452 Special Problems in Biology (1 to 3)**
Tutorial course for advanced undergraduate biology majors capable of doing independent study and research on a minor problem. *Prereq*: the supervising professor's approval of a proposed problem.

BUSINESS See Department of Business and Economics

BUSINESS LAW See Department of Business and Economics

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## DEPARTMENT OF BUSINESS AND ECONOMICS

Joseph M. Thorson, *Chairman*

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### ACCOUNTING

**BAc 201 Principles of Accounting I (3)**
Introducing accounting: double entry procedures, income statement, balance sheet interpretation of accounts, plus proprietorship accounting.

**BAc 202 Principles of Accounting II (3)**
Accounting for partnerships and corporations. Stress is on concepts rather than bookkeeping. *Prereq*: BAc 201.

**BAc 301 Intermediate Accounting (3)**
Analysis and evaluation of assets, liability, and capital accounts. Problems of income measurement and recognition. *Prereq*: BAc 202.

### BAc 302 Managerial Accounting (3)
Selected accounting techniques for compiling and interpreting financial data for managerial decision-making. *Prereq*: BAc 301.

### BAc 303 Cost Accounting (3)
Theory of costs in industry: study, employing the problem method, of job order costs, process costs, standard costs, estimated cost systems and budgets. *Preq*: BAc 202.

### BAc 304 Advanced Accounting (3)
Special accounting procedures for installment sales, consignments, agency and branch accounting, consolidations, and receiverships. Statements of affairs. *Prereq*: BAc 301.

### BAc 400 Senior Seminar in Accounting (3)
Research in accounting. Emphasis on generally accepted accounting principles and written presentation thereof. Research paper must meet departmental requirements. *Prereq*: BAc 304.

### BAc 401 Auditing I (3)
A study of generally accepted accounting principles and auditing procedures. Preparation of working papers. *Prereq*: BAc 304.

### BAc 402 Auditing II (3)
Auditing of original records including assets, liabilities and proprietorship items. The income statement. Internal auditing. The audit report. Ethics of the profession. *Prereq*: BAc 401.

### BAc 403 Federal Taxation I (3)
A complete study of individual and partnership income taxes. *Prereq*: BAc 304.

### BAc 404 Federal Taxation II (3)
Corporation taxes, with emphasis on current Internal Revenue Service regulations. *Prereq*: BAc 403.

### BAc 410 Independent Studies in Accounting (1 to 3)
Special research projects, reports, readings in accounting. Open to seniors and Honors Program students only. *Prereq*: department chairman's approval.

## MANAGEMENT

### BAd 201 Business Organization and Management (3)
Introduction to the principles and the theory of business organization and management. Problems of business functions: organization, planning, direction, coordination, and control.

### BAd 202 Personnel Management (3)
Problems of personnel policies and practices: recruiting; selection of personnel; testing and training programs; job evaluation, rating, promotion, and transfer; and employee services. *Prereq*: BAd 201.

### BAd 221 Principles of Marketing (3)
The consumer market, product planning, merchandising and distribution, pricing, and market research.

### BAd 322 Advertising and Sales Promotion (3)
The role of advertising and promotion in wholesale and retail marketing. Current campaigns are studied. *Prereq*: BAd 221.

### BAd 323 Production Planning and Control (3)
Study of production-control organizations. Personnel; machines; methods of scheduling, dispatching, and renting; equipment and facilities; plant layout; and internal traffic control. The analysis of and application to production problem areas of linear programming, critical path analysis, PERT, forecasting methods, and other operations research techniques. *Prereq*: BAd 201 or permission of instructor.

### BAd 324 Quality Control (3)
Control techniques in industrial production, inspection, and experimentation. Intensive study of the SHEWHART control charts and acceptance sampling by attributes and variables. *Prereq*: Mat 108, BAd 201.

### BAd 325 Corporation Finance (3)
The organization and financing of the modern corporation. Promotion, capitalization, short-term financing, capital budgeting, distribution of earnings, expansion, consolidation, failure, and reorganization. *Prereq*: Eco 232.

### BAd 326 Production Management (3)
Plant location, design, and construction; internal organization for operations, production control, stores control, routing of materials, job analysis, and time study; wage systems, subdivision of executive responsibilities and duties; methods of coordination and planning. *Prereq*: BAd 201.

### BAd 344 Investments (3)
Problems and procedures of investment management; types of investment risks; security analysis; investment problems of the individual as well as the corporation. *Prereq*: BAd 325.

### BAd 400 Senior Seminar in Management (3)
Research in management. Emphasis on integrating and reinforcing principles studied in earlier courses. Research paper must meet departmental requirements. *Prereq*: BAd 401.

### BAd 401 Industrial Organization and Management (3)
Principles and theory involved in operating a modern plant; problems of organization, location, layout, equipment, standards, and control of operations. *Prereq*: BAd 202.

### BAd 402 Organization Behavior and Management (3)
The human aspect in management. Psychological and sociological factors in organization and personnel relations are studied. *Prereq*: BAd 202.

### BAd 405 Business Policy (3)
Integrated course covering the various functions of business administration. The case method is employed. *Prereq*: BAd 401.

### BAd 406 Quantitative Business Analysis (3)
One section of the course deals with systems design and model building. The other deals with quantitative techniques including linear programming, probability theory, inventory models, and queuing theory. Applications to case problems. *Prereq*: Mat 108, 121 or equivalents, or instructor's approval.

### BAd 407 Budgeting and Systems (3)
Budgeting and systems as aids in coordinating and directing business operation. *Prereq*: BAc 202, Eco 232.

### BAd 410 Independent Studies in Management (1 to 3)
Special research projects, reports, readings in management. Open to seniors and Honors Program students only. *Prereq*: department chairman's approval.

## BUSINESS LAW

### BLa 301 Business Law I (3)
Fundamental principles of business law; its origin, nature, and administration. The law of contracts, sales, installment sales, insurance, and real property.

### BLa 302 Business Law II (3)
Laws of negotiable instruments: nature of contract and agency relationships; employer-employee negotiations; partnership and corporation law. *Prereq*: BLa 301.

## ECONOMICS

### Eco 201 Principles of Economics—Survey (3)
A study of the basic principles underlying production and consumption activities in our modified capitalistic economic system, from the aggregate as well as individual and sectoral standpoints. Issues considered include competition, unemployment, inflation, economic growth, and alternative economic systems.

### Eco 231 Principles of Economics I (3)
The principles underlying use and allocation of scarce productive resources. Consumption and production activities. Value, price, and income distribution. Considerations of economic efficiency and welfare.

### Eco 232 Principles of Economics II (3)
National income and its measurement. The determination of price levels, output, and employment. Money and credit, expenditures, and economic stability. Government fiscal and monetary policy. *Prereq*: Eco 231.

### Eco 333 Consumer Economics (3)
The major kinds of economic decisions required of consumers; an evaluation of the social and economic consequences of those decisions.

### Eco 334 Industrial Relations (3)
Objectives sought and policies followed by labor and management in modern industrial relations in the United States. Collective bargaining processes and the role of government. *Prereq*: Eco 232.

### Eco 335 Money, Banking, and Fiscal Policy (3)
A survey of money, credit, and prices, emphasizing their effects on economic stability. The Federal Reserve System and its effect on credit control. *Prereq*: Eco 232.

### Eco 336 Business and Government (3)
Background and development of public policies which directly modify the free enterprise economy of the United States. Evaluation of policies which change the nature and extent of competition. *Prereq*: Eco 231.

### Eco 337 Economic Growth and Development (3)
A survey and critical evaluation of alternative theories of capitalist economic development. Analysis and comparison of alternative public policies applicable to underdeveloped countries and regions. *Prereq*: Eco 232.

### Eco 338 International Economics (3)
A descriptive, analytical examination of international trade, financial, and other economic relationships. The effects of public policies on these relationships. *Prereq*: Eco 232.

### Eco 339 Economic Statistics (3)
Introduction to systematic presentation and evaluation of quantitative data. Emphasizes basic statistical measures, statistical inference, and regression, as applied to economic phenomena. *Prereq*: Eco 232, Mat 121.

### Eco 340 Intermediate Economic Theory I (3)
A continuation and extension of the price-system analysis of Eco 231. Emphasis on the issue of efficiency in the economy's use of scarce productive resources. *Prereq*: Eco 232.

### Eco 341 Public Finance (3)
Government's influence on stability of national income. The nature of taxes and expenditures at the various levels of government and their effect on the allocation of resources and the distribution of income. *Prereq*: Eco 232.

### Eco 342 Business Cycles (3)
The nature of economic fluctuation in modern capitalism. *Prereq*: Eco 232.

### Eco 343 Comparative Economics Since 1930 (3)
Basic ideas and economic institutions of socialism, communism, and capitalism in the twentieth century; problems created by the emergence of competing systems. *Prereq*: Eco 232.

### Eco 345 History of Economic Thought (3)
Origins of economic thought and comparison of the major schools of economic doctrine. Current economic and socio-political factors. *Prereq*: Eco 232.

### Eco 346 Economy of Soviet Russia: Organization and Growth (3)
Russian economic growth prior to 1917; economic change and growth under the Soviet system. Workers' control, planning, pricing, resource allocation, and controls. An assessment of the economy's achievements, shortcomings, and prospects. *Prereq*: Eco 232 or permission of instructor.

### Eco 347 Managerial Economics (3)
A course which seeks to develop managerial judgment. The premise is that technical application, to be successful, must proceed from economic feasability. One plan is weighed against another in terms of comparative costs and revenues, return on investment, plant-replacement problems, obsolescence, and depreciation. *Prereq*: Eco 232.

### Eco 348 Intermediate Economic Theory II (3)
Causes and implications of fluctuations in levels of national income, prefaced by a survey of the problems of defining and measuring national income. An introduction to the national-income approach to economics as exemplified in the writings of Keynes and his contemporaries. *Prereq*: Eco 232.

### Eco 400 Senior Seminar in Economics (3)
Research in economics. Emphasis on methodology, bibliography, and oral and written presentation. Research paper must meet departmental requirements. *Prereq*: Eco 340.

### Eco 401 Quantitative Analysis (3)

Statistical and mathematical techniques applied to economic situations. Use of empirical data in economic analysis. *Prereq*: Eco 339.

### Eco 410 Independent Studies in Economics (1 to 3)

Special research projects, reports, readings in economics. Open to seniors and Honors Program students only. *Prereq*: department chairman's approval.

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## DEPARTMENT OF CHEMISTRY

Francis J. Reynolds, *Chairman*

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### Che 100 Principles of Chemistry (4)

A survey course required of all students in health and physical education. Fundamental laws and theories of chemistry, problem solving, and laboratory techniques. Three hours lecture, two hours lab.

### Che 101 Chemistry for Nurses (4)

Topics in general, organic, and biological chemistry of medical and physiological significance. Standard laboratory experiments and clinical techniques. Three hours lecture and two hours lab.

### Che 103 General Chemistry I (4)

Basic laws of chemistry, fundamentals of chemical combination, atomic structure, chemical bonding, oxidation-reduction, solutions, electrochemistry, and modern concepts of acids and bases. Two hours lecture, one hour recitation, three hours lab.

### Che 104 General Chemistry II and Qualitative Analysis (4)

A continuation of Che 103. Correlations of chemical principles and their application to modern descriptive chemistry. Laboratory work includes semi-micro qualitative analysis. Two hours lecture, one hour recitation, three hours lab. *Prereq*: Che 103.

### Che 230 Introduction to Organic Chemistry (4)

A one-semester course in fundamentals of organic chemistry. Structural theory of organic molecules; organic synthesis; and biological applications. Three hours lecture and four hours lab. *Prereq*: Che 104.

### Che 231 Organic Chemistry I (3)
Structure and reactions of organic molecules. Prepares for future study of organic chemistry. *Prereq*: Che 104.

### Che 232 Organic Chemistry II (4)
A continuation of Che 231. Three hours lecture and four hours lab. *Prereq*: Che 231.

### Che 233 Organic Chemistry III (4)
A continuation of Che 232. Includes such topics as heterocyclic compounds, natural products, and stereochemistry. Three hours lecture and four hours lab. *Prereq*: Che 232.

### Che 321 Quantitative Analysis (4)
Introduction to the theory and techniques of gravimetric and volumetric methods of analysis. Two hours lecture and six hours lab. *Prereq*: Che 104.

### Che 324 Instrumental Methods of Analysis (4)
Theory and application of modern analytical instruments. Laboratory devoted to techniques in the use of selected instruments. Two hours lecture and six hours lab. *Prereq*: Che 321.

### Che 341 Physical Chemistry I (3)
Properties of the states of matter, chemical thermodynamics, theory of solutions, and chemical equilibrium. Prepares for future study of physical chemistry. *Prereq*: Mat 242 (may be concurrent), Che 321, and Phy 102 or 104.

### Che 342 Physical Chemistry II (4)
A continuation of Che 341. Electrochemistry, chemical kinetics, and atomic and molecular structure. Three hours lecture and three hours lab. *Prereq*: Che 341.

### Che 343 Physical Chemistry III (4)
Quantum chemistry and statistical mechanics. Theory of chemical bonding and molecular structure, with applications. Advanced experimental work. Three hours lecture and three hours lab. *Prereq*: Che 342.

### Che 345 Physical Chemistry for the Life Sciences (4)
Primarily for biology majors. Chemical thermodynamics, equilibria, and kinetics. Emphasis on biochemical systems. Three hours lecture and three hours lab. *Prereq*: Che 232, Mat 142. General physics desirable but not required.

### Che 401 History and Literature of Chemistry (2)
Historical background of chemistry; survey of literature of chemistry; instruction in the use of a modern chemical library. *Prereq*: Upper Division Standing and permission of instructor.

### Che 410 Advanced Inorganic Chemistry (3)
The application of modern chemical theories to inorganic substances and reactions; the chemistry of the short and long transition elements. *Prereq*: Che 104.

### Che 421 Advanced Analytical Chemistry (3)
Basic principles of analytical chemistry for background in modern instrumental methods. *Prereq*: Che 321, 342.

### Che 431 Advanced Organic Chemistry (3)
Detailed mechanisms of some organic reactions, including aromatic substitutions, reductions, condensation reactions of carbonyl compounds, carbon skeleton rearrangements, and free radical reactions. *Prereq*: Che 233.

### Che 432 Qualitative Organic Analysis (3)
A laboratory course in classical and instrumental methods for identification of organic compounds. Two hours lecture and four hours lab. *Prereq*: Che 232, 321.

### Che 440 Advanced Physical Chemistry (3)
Advanced treatment of molecular and crystal structure, quantum and statistical mechanics, chemical kinetics, and thermodynamics. *Prereq*: Che 342.

### Che 441 Introductory Polymer Chemistry (3)
Preparation and properties of principal polymer systems; practical applications. *Prereq*: Che 232.

### Che 445 Chemical Thermodynamics (3)
Fundamental laws and functions of thermodynamics and their chemical applications. Introduction to statistical thermodynamics. *Prereq*: Che 342.

### Che 451 Chemistry of Coordination Compounds (3)
Theories of complexes: valence bond theory, ligand field theory, and molecular orbital theory. Preparation and reactions of important coordination complexes. *Prereq*: Che 410.

### Che 461 Nuclear Chemistry (3)
Properties of the atomic nucleus; nuclear particles and energy emission. Important radioisotopes and their applications to medicine and chemical research. *Prereq*: Che 342.

### Che 471 Fundamentals of Biochemistry (4)
Structures and chemistry of proteins and nucleic acids; thermodynamics of biochemical reactions; kinetics of enzyme and coenzyme mechanisms. Three hours lecture and three hours lab. *Prereq*: Che 232, Che 345, or equivalent.

### Che 473 Biochemistry (3)
The chemistry of proteins and nucleic acids, including molecular biology, physicochemical methods for bio-macromolecules, enzymes and the molecular basis for physiological phenomena. *Prereq*: Che 233, 342.

### Che 480 Introduction to Chemical Research (2 to 6)
Information retrieval and chemical research under direct supervision of a staff member. Six to eighteen hours of literature search and chemical research. *Prereq*: Senior Standing and permission of department chairman.

### Che 491 Seminar in Chemistry (1)
Oral presentation of papers based upon laboratory or library research. *Prereq*: Senior Standing and permission of department chairman.

COMPUTER SCIENCE See Department of Mathematics

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## DEPARTMENT OF EARTH, SPACE, AND GENERAL SCIENCES

Russell K. Rickert, *Interim Chairman*

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### Sci 250 Science for the Elementary Grades (3)
A course to prepare the elementary teacher for teaching science. Selected units or problems which cut across various fields of science. Methods and processes of science and available resources. *Prereq*: Bio 100, Sci 150, or acceptable equivalents.

### Sci 350 Teaching Science in Secondary Schools (3)
Philosophy, objectives, and methods of teaching science. Practical experience provided. *Prereq*: Upper Division standing in a science major.

### ESS 101 Earth Science (4)
The earth's composition and history; the processes that occur on and within the earth. Three hours lecture and two hours lab.

### ESS 111 General Astronomy (4)
A descriptive course with laboratories in the observatory and planetarium. Three hours lecture and two hours lab.

### ESS 201 Physical Geology (4)
The earth's composition (minerals and rocks) and earth processes (weathering, erosion, volcanism, and diastrophism). Three hours lecture and two hours lab.

### ESS 211 Historical Geology (4)
The geologic history of the earth and the evidences for this history. Three hours lecture and two hours lab.

### ESS 230 Introduction to Oceanography (4)
A survey of our present knowledge of the waters and floor of the oceans. Three hours lecture and two hours lab.

### ESS 240 Introduction to Meteorology (4)
Principles governing the conditions of the earth's atmosphere; how these principles determine weather conditions. Three hours lecture and two hours lab.

### ESS 301 Mineralogy and Petrology (3)
Physico-chemical principles used in the classification, identification, and origin of minerals and rocks. Two hours lecture and two hours lab. *Prereq*: Che 104, ESS 201.

### ESS 311 Geochemistry (3)
The chemistry of the earth and its relation to geologic processes. Two hours lecture and two hours lab. *Prereq*: Che 104, ESS 201.

### ESS 350 Astronomy I (3)
The study of the solar system: history of astronomy, the moon, planetary bodies, the sun, the telescope, and spectroscopy. Two hours lecture and two hours lab. *Prereq*: Phy 101.

### ESS 351 Astronomy II (3)
A continuation of ESS 350. A study of stellar systems, population of the universe, stellar motions, and galaxies. Two hours lecture and two hours lab. *Prereq*: ESS 350.

### ESS 415 Introduction to Seismology (3)
An introduction to the use of the seismograph emphasizing its use to detect and record earthquakes. Two hours lecture and two hours lab. *Prereq*: ESS 211.

### ESS 465 Observatory Principles (3)
Principles and use of the telescope. Specific projects are assigned. Hours by arrangement. *Prereq*: ESS 350.

### ESS 475 Introduction to the Planetarium (3)
Principles and use of the planetarium. Specific projects are assigned. Two hours lecture and two hours lab. *Prereq*: ESS 350.

## SCHOOL OF EDUCATION

Harold W. Benda, *Dean*

John A. Lander, *Assistant Dean*

Michael F. Bannon, *Associate Dean for Graduate Studies*

Charlotte E. King, *Chairman, Department of Elementary Education*

Walter N. Ridley, *Chairman, Department of Secondary Education and Professional Studies*

Richard P. Weagley, *Chairman, Department of Instructional Media Education*

Julian M. Swiren, *Acting Chairman, Department of Counselor Education*

### EXPLANATION OF PREFIXES

Courses given by the School of Education bear a general prefix of Ed followed by a letter which identifies the department or curriculum, as:

A — Atypical (Special Education)
C — Counselor Education
E — Elementary Education
F — Foundations
M — Instructional Media Education
P — Psychology (Educational)
S — Secondary Education
U — Urban Education

**EdF 100 School and Society (3)**
An introduction to the nature, function, scope, organization, administration, and support of the public school in American society.

**EdC 150 Introduction to Guidance and Counseling (3)**
An orientation course for classroom teachers. The focus is upon personnel services. *Prereq*: Psy 100.

**EdA 241 Psychology of Exceptional Children (3)**
Psychology of children with superior or inferior intellectual ability; with defective vision, hearing, or speech; or with emotional, social, or physical handicaps. *Prereq*: Psy 100.

### EdA 243 Psychology of the Mentally Retarded (3)

A survey of the psychological development of mentally retarded children. Emphasizes socio-economic, cultural, emotional, and educational factors influencing their behavior. *Prereq*: EdA 241.

### EdP 250 Psychology of Learning and Development (3)

A study of learning in relation to the physical, social, emotional, and intellectual aspects of personality. *Prereq*: Psy 100.

### EdE 251 Human Development: Childhood (3)

A study of child growth, development, and behavior, with specific application to early childhood and elementary education. *Prereq*: Psy 100.

### EdM 300 Audio-Visual Education (2)

Techniques, materials and equipment, and the development of skill in their use in teaching. Class meets three times weekly.

### EdE 302 Field Experience in Early Childhood Education (3)

Practical experience with young children through participation in pre-school programs; related lecture and discussion. *Prereq*: EdE 251.

### EdE 303 Creativity in the Classroom (3)

Exploration of materials and processes of children's perceptions and behavior, aimed at encouraging the development of their critical and creative potentials.

### EdE 305 Field Experience in Elementary Education (1)

Junior-year participation in an elementary school classroom for a two-hour period each week. (Student schedule must provide at least a three-hour block.) *Prereq*: Junior Standing.

### EdS 306 Field Experience in Secondary Education (3)

Practical experience in identifying, analyzing, and defining problems in secondary education through placement of students as teacher-aides in cooperating schools. Students registering during fall and spring semesters are required to allow at least a three-hour block for field-observation responsibilities. *Prereq*: EdF 100, EdP 250, and Junior Standing.

### EdE 309 Language Arts in the Elementary School (6)

A study of the total language program: oral language (listening and speaking), reading, and written language. Stresses content, sequence, methods, and materials of instruction. Combines the contents of EdE 317 and EdE 319, but focuses on the interrelatedness among the language arts.

### EdE 317 Oral and Written Expression in the Elementary School (3)
A study of the program in oral language (listening and speaking) and written language. Stresses content, sequence, methods, and materials of instruction. *Prereq*: departmental approval and permission of Dean of Undergraduate Studies.

### EdE 319 Reading in the Elementary School (3)
Content, sequence, methods, and materials of instruction in the reading program. *Prereq*: departmental approval and permission of Dean of Undergraduate Studies.

### EdS 320 Teaching of Reading in the Secondary Schools (3)
The nature of the reading process, the reading program, and reading study skills. Open only to students preparing to teach at the secondary level.

### EdE 321 Diagnostic and Remedial Reading (3)
Identifying the nature and causes of reading disabilities; procedures and materials for helping children with reading problems. *Prereq*: EdE 309 or 319 or EdS 320.

### EdA 330 Teaching the Exceptional Child (3)
A study of atypical children; the selection of learning aids and materials; the development of teaching techniques. *Prereq*: Psy 100.

### EdE 332 Teaching Social Studies in the Elementary School (3)
Methods of teaching social studies and geography in the elementary curriculum. Techniques, current research projects, reading materials, audio-visual aids, resource persons, and field trips as tools of learning. The organization, development, and use of resource units are stressed.

### EdA 344 Problems in Special Education (2)
Significant problems in the program for the mentally retarded child. The teacher's role in interpreting the special aspects of the program to school personnel, parents, and community.

### EdA 348 Curriculum and Methods for the Mentally Retarded (3)
An introduction to methods of teaching mentally retarded children. Emphasis is upon developing classroom programs and the adaptation of instructional materials for use with the retarded child.

### EdA 349 Curriculum and Methods for the Physically Handicapped (3)
An introduction to methods of teaching physically handicapped children. Emphasis is upon developing classroom programs and the adaptation of instructional materials for use with the handicapped.

### EdA 350 The Academically Superior Child (3)
The gifted child and means of providing an effective educational program for him.

### EdP 351 Evaluation and Measurement (2)

A survey of testing materials and procedures with emphasis upon interpretation and application of results for pupil guidance purposes. Class meets three times weekly. *Prereq*: Psy 100, EdP 250.

### EdU 360 The Culturally Disadvantaged Child (3)

Backgrounds, problems, and potentialities of the culturally disadvantaged student. *Prereq*: Psy 100 and EdE 251 or Psy 352.

### EdU 361 Teaching in Urban Schools (3)

An introduction to urban education by means of observation, lectures, discussions, and related activities. *Prereq*: EdU 360 or permission of instructor.

### EdE 401 Current Trends in Elementary Education (2)

Basic curriculum principles, organization and guidance of learning activities, classroom management, professional responsibilities of teachers, and trends in elementary education. (Formerly Problems of Elementary Education.) Class meets three times weekly. *Prereq*: 96 semester hours, including all professional-education courses and all specialized-preparation courses listed for the first six semesters.

### EdE 403 Early Childhood Education I (3)

An introductory course: historical and philosophical background of early education, survey of current programs, and intensive study of child development in the early years.

### EdE 404 Early Childhood Education II (3)

Methods, materials, and content of educational programs for young children, with emphasis on the practical application of knowledge and theory. *Prereq*: EdE 403 or equivalent.

### EdE 411 Student Teaching and Direction of Student Activities [Elementary Majors] Including Practicum (12)

Observation and participation in teaching and all other activities related to the teacher's work in the elementary school. Students meet once each week in a practicum session. *Prereq*: 96 semester hours including all professional-education courses and all specialized–preparation courses listed for the first six semesters. Students must have at least a 2.0 cumulative average and a 2.0 average in the major field (sophomore and junior courses listed under *Specialized Preparation*).

### EdS 412 Student Teaching and Direction of Student Activities [Secondary Majors] Including Practicum (12)

Observation and participation in teaching and all other activities related to the teacher's work in the area of the student's specialization. *Prereq*: 96 semester hours including all professional-education courses listed for the first six semesters. Students must have at least a 2.0 cumulative average and a 2.0 average in the major field.

**EdE 421 Honors Seminar in Elementary Education (2)**
Independent study in early childhood education and/or elementary education; participation in experimental programs when possible. May be taken as an elective or, with departmental permission, may substitute for EdE 401. *Prereq*: Senior Standing, a cumulative average of 3.0, an average of 3.0 in the major field, and departmental approval.

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## DEPARTMENT OF ENGLISH

John W. Clokey, *Chairman*

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### ENGLISH COMPOSITION

**Eng 000 English Composition (No credit)**
Remedial English.

**Eng 101 English Composition I (3)**
Review of grammar and mechanics. Introduction to styles of writing. Compositions, outside reading, use of the library.

**Eng 102 English Composition II (3)**
A continuation of methods of composition: exposition, narration, argumentation, description. Techniques of research paper. *Prereq*: Eng 101.

**Eng 105 Writing Workshop (3)**
Practice in writing exposition, fiction, poetry, and drama with a view to discovering the student's most promising area. *Prereq*: Eng 321.

**Eng 211 Mass Media in Society (3)**
Introduction to theory and problems of mass media; their role in American culture.

**Eng 212 Principles of Newspaper Production I (2)**
A workshop course in newspaper production through lectures and work on student newspaper.

**Eng 213 Principles of Newspaper Production II (2)**
A continuation of Eng 212.

### Eng 214 Principles of Yearbook Production I (2)
All phases of yearbook planning, writing, editing, production, and financing. For yearbook staff members and potential yearbook advisers.

### Eng 215 Principles of Yearbook Production II (2)
Practical applications of theories developed in Eng 214. *Prereq*: Eng 214.

### Eng 216 News Reporting (2)
Principles of news reporting and practice in gathering and writing news for all media. Research, writing, and the interview. *Prereq*: Eng 211.

### Eng 217 Feature Writing (2)
Features in newspapers and magazines. Developing ideas, gathering material, and writing feature articles. Marketing methods for the free lancer. *Prereq*: Eng 211.

### Eng 218 History of Communications (3)
History and development of newspapers, magazines, motion pictures, radio, and television. *Prereq*: Eng 211.

### Eng 230 Business Communication (3)
Oral and written communications, reports, and forms. Duplication processes. Replaces Eng 102 for business administration majors.

### Eng 313 Advanced Writing (3)
Experience in expository, descriptive, narrative, and argumentative techniques. Emphasis on style. *Prereq*: Eng 102.

### Eng 314 History of Language (3)
Review of the major forces and influences on language development. History of the English language.

### Eng 315 Modern English Grammar (3)
Development of English grammar. A survey of the linguistic influences on the descriptive approach to grammar. *Prereq*: Eng 102.

### Eng 316 Teaching English in Secondary Schools (3)
Review of language-arts requirements in secondary schools. Special reference to grade-placement with adaptation of materials, appraisal of results, and development of programs of study. *Prereq*: first and second years' English courses.

### Eng 317 Old English Language and Literature (3)
An introductory study of the language and a review of selections from the religious and secular poetry. *Prereq*: Eng 314.

### Eng 318 Middle English Language and Literature (3)

An introductory study of the language and a review of Middle English texts (exclusive of Chaucer). *Prereq*: Eng 314.

### Eng 319 American English (3)

Trends and developments in American English; recent studies in dialects, usage, and sociolinguistics. *Prereq*: Eng 314, 315, or permission of instructor.

### Eng 320 Linguistics for the Elementary School Teacher (3)

Study of modern English phonology and morphology, regional and social variations in American dialects, and current linguistic concepts of grammar. *Prereq*: SpP 170 or 201.

### Eng 321 Creative Writing (3)

Experience in writing fiction, poetry, drama. *Prereq*: permission of instructor.

### Eng 323 Poetry Workshop (3)

The theory and practice of poetry; the exploration of verse forms, prosody, metrics; practice in critical and interpretive analysis of poems written by fellow students and professional poets. The poem as a product of highly skilled craftsmanship.

### Eng 325 Drama Workshop (3)

Writing the play, with concrete reference to the possibilities and limitations of the stage. Attention to sets and costuming where relevant. Characterization by action and dialogue. Problems of establishing motivation. The play's totality in theme, character, and action. Informal readings of students' works.

### Eng 327 Short Story Workshop (3)

Crafting the modern short story with special reference to American and British models. The weight of setting, atmosphere, characterization, and theme. Compression and the simultaneity of technique in the well-made story. Discussion and some exploitation of experimental ideas in the genre.

### Eng 331 Exposition Workshop (3)

Practice in writing critically. Conventions of description, argumentation. Use of fictional techniques in factual prose. The commercial and quality magazine article.

### Eng 400 English Honors Seminar (3)

Preference to seniors. *Prereq*: permission of instructor.

**Eng 405 Senior Writing Seminar (3)**
Discussion and development of major projects underway.

**Eng 406 Independent Study (3)**
Students of unusual promise work with individual instructors.

## LITERATURE

**Lit 121 General Literature I (3)**
Introduction to Western literature from Homer to Cervantes.

**Lit 122 General Literature II (3)**
A continuation of Lit 121 from Shakespeare to the present. *Prereq*: Lit 121.

**Lit 127 General Literature II (3)**
Literature of Continental Europe from Neoclassicism to the present. For English majors and arts and letters majors in lieu of Lit 122.

**Lit 223 American Literature I (3)**
A survey of representative American writings from Colonial times to 1860. Emphasis on democratic ideals and national character.

**Lit 224 American Literature II (3)**
A survey of representative American writings from 1860 to the present.

**Lit 225 English Literature I (3)**
A survey of English literature from Anglo-Saxon writing to Robert Burns.

**Lit 226 English Literature II (3)**
A survey of English literature from Robert Burns to the present.

**Lit 321 Great Books I (3)**
A study in depth of six selected writings that have made significant contributions to the development of Western Civilization.

**Lit 322 Great Books II (3)**
A continuation of the study of the progress of Man in the world, using six additional masterworks.

**Lit 328 Milton (3)**
A survey of the major poetry and prose works. *Prereq:* Lit 225, 226.

**Lit 329 Classical Mythology (1)**
Literature of Mythology.

**Lit 330 Medieval Literature in England (3)**
Medieval English literature (1066-1500). A survey of literature in translation from the Norman Conquest to the accession of the Tudors, emphasizing the popular forms: lyric, romance, metrical tale, fabliau, and ballad. *Prereq:* Lit 225, 226.

**Lit 331 Chaucer (3)**
*Canterbury Tales* and *Troilus and Criseyde*; literary interpretation. *Prereq:* Lit 225.

**Lit 332 English Drama to 1642 (3)**
English drama from the early liturgical tropes to 1642, exclusive of Shakespeare.

**Lit 333 Shakespeare I (3)**
Selected comedies, histories, and tragedies. Literary and historical background and Shakespeare's development as a dramatist.

**Lit 334 Shakespeare II (3)**
A continuation of Lit 333.

**Lit 335 Restoration and Eighteenth Century Literature (3)**
A critical consideration of eighteenth century writers, exclusive of the dramatists. The struggle between tradition and revolt.

**Lit 336 The Romantic Movement (3)**
Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries in the light of social background and critical doctrine.

**Lit 337 Victorian Literature (3)**
Victorian thought and culture in selections of non-fiction prose and poetry. *Prereq:* Lit 226.

**Lit 338 Modern Irish Literature (3)**
Major literary works of Ireland from 1840 to the present. Moore, Synge, Yeats, Joyce, Shaw, and O'Casey.

**Lit 340 Minority Cultures in American Literature (3)**
Study of American ethnic, racial, and national groups in American literature and the contributions of creative literary artists representing these cultures.

### Lit 344 Literary Form and Content since World War II (3)

Trends in American and English literature since the close of World War II. The anti-novel, anti-play, pseudo-play, current Theater of the Absurd, current Existentialist literature, neo-novella, theater-piece, happening, and other non-oeuvres.

### Lit 345 Criticism (3)

Study of the theories and values of major critics of the Classical Period and of England and the United States.

### Lit 346 Essay (3)

History and development of the essay. Readings in current periodicals.

### Lit 347 Literature of Biography (3)

Historical development of biographical writing. Plutarch, Boswell, Carlyle, Macaulay, Strachey, Bradford, Ludwig, and standard contemporary biographers.

### Lit 348 Short Story (3)

The short story as an aesthetic literary form.

### Lit 349 Bible as Literature (3)

Books of the English Bible, especially the King James Version, as a part of English and American Literature.

### Lit 350 Children's Literature (3)

Introduction to important children's books, old and new. Techniques for presentation of book material and evaluation of children's books.

### Lit 353 Reading Interests of Secondary School Students (3)

A service source. Interests and reading growth of junior and senior high school students.

### Lit 354 Restoration and Eighteenth Century Drama (3)

Study of the drama from the reopening of the theaters in 1660 to 1800.

### Lit 355 Modern British Drama (3)

British drama from Wilde to the present, with emphasis on the rebirth of the British drama and its major writers.

### Lit 356 Modern Continental Drama (3)

A consideration of the chief writers who influenced the modern drama: Ibsen, Strindberg, Chekhov, Hauptmann, Pirandello, Sartre, Brecht, and Ionesco.

**Lit 357 Modern American Drama (3)**
A survey of American drama from the early 1900's to the present, with emphasis on the development of the American theater as seen in such major dramatists as O'Neill, Odets, Wilder, Miller, Williams, and Albee.

**Lit 360 Tudor Literature (3)**
Prose and poetry of the Tudor period. More to Spenser. *Prereq*: Lit 225, 226.

**Lit 361 Stuart Literature (3)**
Prose and poetry of the Stuart period. Jonson and Donne to Dryden. *Prereq*: Lit 225, 226.

**Lit 370 Origins of the British Novel (3)**
Study of the beginnings of the novel in English. Defoe, Richardson, Fielding, Smollett, Sterne, and Goldsmith.

**Lit 371 Nineteenth Century British Novel (3)**
Study of the British novel from Austen to Hardy.

**Lit 372 Development of the American Novel (3)**
Study of the beginnings of the American novel to Frank Norris.

**Lit 373 Modern British Novel (3)**
Study of the novel in England from Conrad to the present.

**Lit 374 Modern American Novel (3)**
Study of the novel in America from Dreiser to the present.

**Lit 380 Modern Poetry I (3)**
English and American poetry from 1900 to World War II.

**Lit 381 Modern Poetry II (3)**
English and American poetry since World War II.

**Lit 385 Colonial and Revolutionary American Literature (3)**
Writers of Colonial and Revolutionary America. *Prereq*: Lit 223, 224.

## HUMANITIES

**Hum 400 The Contemporary Arts: An Aesthetics Approach (3)**
Exploration of basic aesthetics principles appearing simultaneously in contemporary art forms: dance, music, art, literature, drama. A team-teaching effort; open on a pass-fail basis to juniors and seniors of all disciplines.

# DEPARTMENT OF FOREIGN LANGUAGES

Alfred D. Roberts, *Chairman*

## FRENCH

### Fre 101 Elementary French I (3)

Fundamentals of French grammar, syntax, and pronunciation. Introduction to French culture through easy reading texts. The audio-lingual method is employed at all times. Work in the language laboratory required..

### Fre 102 Elementary French II (3)

A continuation of Fre 101 with increased emphasis on reading and conversation in French. Language laboratory drill required.

### Fre 201 Intermediate French I (3)

Intensive review of grammar and syntax. Readings in French literature as a basis for class discussion in French and practice in composition. Language laboratory drill for remedial work only. *Prereq*: Fre 102 or equivalent.

### Fre 202 Intermediate French II (3)

A continuation of Fre 201 with more extensive practice in composition and conversation.

Note: *All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.*

### Fre 203 Advanced Grammar and Composition (3)

The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on correct usage. *Prereq*: Fre 202 or equivalent.

### Fre 204 Advanced Oral French (3)

Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. *Prereq*: Fre 203 or equivalent.

### Fre 205 Survey of French Literature I (3)

French literature from its earliest beginnings to the French Revolution. *Prereq*: Fre 202 or equivalent.

### Fre 206 Survey of French Literature II (3)

French literature from the French Revolution to the present. *Prereq*: Fre 202 or equivalent.

### Fre 304 French Civilization (3)

France's political and educational systems, her economic and religious institutions, and her folkways. The arts in France today. *Prereq*: Fre 201 or equivalent.

### Fre 401 French Literature of the Eighteenth Century (3)

Literary genres in France in the eighteenth century, emphasizing the works of Voltaire, Rousseau, Montesquieu, and Diderot. *Prereq*: Fre 205.

### Fre 402 French Literature of the Nineteenth Century (3)

Literary movements of the nineteenth century. *Prereq*: Fre 206.

### Fre 403 Contemporary French Literature (3)

Major literary works of the twentieth century and philosophico-esthetic movements which contributed to them. *Prereq*: Fre 206.

### Fre 404 French Classical Drama (3)

Corneille, Racine, and Moliere. *Prereq*: Fre 205.

### Fre 410 Honors Seminar in French (3)

Independent study and research for upper division students who qualify under the Honors Program in foreign languages.

### Fre 411 Honors Seminar in French (3)

Independent study and research for upper division students who qualify under the Honors Program in foreign languages. Fre 410 is not prerequisite. A student may take Fre 410 or 411 or both.

## JUNIOR YEAR ABROAD PROGRAM

### Fre 361-62 Advanced Grammar and Composition (6)

Grammatical and syntactical structure of French. Practical application in free and controlled composition.

### Fre 363-64 Advanced French Conversation (6)

Intensive drill in correct usage of contemporary speech patterns. Extensive opportunity for oral self-expression.

### Fre 365-66 Phonetics and Translation (6)

The sounds of French through the medium of the international phonetic alphabet. The art of translation. The language laboratory is used for phonetic drill.

### Fre 367-68 Contemporary French Civilization (6)

France today—social, political, and economic life; science, technology, literature, art.

### Fre 369-70 Literary Studies (6)

"Explication de Textes" from representative writers.

## GERMAN

### Ger 101 Elementary German I (3)

Fundamentals of German grammar, syntax, and pronunciation. Introduction to German culture through easy reading texts. The audio-lingual method is employed and language laboratory drill is required.

### Ger 102 Elementary German II (3)

A continuation of Ger 101 with increased emphasis on reading and conversation in German. Language laboratory drill.

### Ger 201 Intermediate German I (3)

Review of grammar and syntax. Readings in German literature as a basis for class discussion in German and practice in composition. Language laboratory drill required for remedial work only. *Prereq*: Ger 102 or equivalent.

### Ger 202 Intermediate German II (3)

A continuation of Ger 201. Extensive practice in composition and conversation.

Note: *All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.*

### Ger 203 Advanced German Grammar and Composition (3)

The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on correct usage. *Prereq*: Ger 202 or equivalent.

### Ger 204 Advanced Oral German (3)

Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. *Prereq*: Ger 203 or equivalent.

### Ger 205 Survey of German Literature I (3)

German literature from its earliest beginnings to 1800. *Prereq*: Ger 202 or equivalent.

### Ger 206 Survey of German Literature II (3)

German literature from 1800 to the present. *Prereq*: Ger 202 or equivalent.

### Ger 401 The Age of Goethe (3)

German literary doctrines and masterpieces of the periods of Enlightenment, Storm and Stress, and Classicism. *Prereq*: Ger 202 or equivalent.

### Ger 402 Contemporary German Literature (3)

Works of the principal German writers of the twentieth century and the background of events and ideas which have contributed to the development of these writers. *Prereq*: Ger 202 or equivalent.

### Ger 403 The German Short Story (3)

The German short story from Romanticism to the present. *Prereq*: Ger 202 or equivalent.

### Ger 404 Goethe (3)

Important works of Goethe; his background and literary development. *Prereq*: Ger 205.

### Ger 405 Scientific German (3)

Review of syntax, readings, and translation in general science and basic technical fields. *Prereq*: Ger 102 or equivalent.

### Ger 406 German Civilization (3)

The evolution of Germany's social, political, and economic institutions. An analysis of the major contributions of German civilization to Western culture.

### Ger 410 Honors Seminar in German (3)

Independent study and research for upper division students who qualify under the Honors Program in foreign languages.

### Ger 411 Honors Seminar in German (3)

Independent study and research for upper division students who qualify under the Honors Program in foreign languages. Ger 410 is not prerequisite. A student may take Ger 410 or 411 or both.

## GREEK

### Gre 101 Beginning Greek I (3)
For students who have had no previous Greek. Forms, syntax, and idioms of Homeric Greek.

### Gre 102 Beginning Greek II (3)
A continuation of Gre 101. Reading of Homer's *Iliad*, Book I, followed by an introduction to Attic Greek. Records and tapes in Greek to supplement class work.

### Gre 201 Intermediate Greek I (3)
Review of Attic grammar and readings in Attic authors. Introduction to the *koine* and readings in New Testament Greek.

### Gre 202 Intermediate Greek II (3)
Introduction to Greek Tragedy. Sophocles' *Antigone* and Euripides' *Medea* are read and analyzed.

## ITALIAN

### Ita 101 Elementary Italian I (3)
Introduction, through the audio-lingual method, to the sounds of Italian. Thorough and intensive drill, both in class and in the language laboratory, with pronunciation, intonation, and basic linguistic patterns. Introduction to Italian culture by means of basic dialogues and easy reading texts.

### Ita 102 Elementary Italian II (3)
A continuation of Ita 101 with greater emphasis on structural analysis.

### Ita 201 Intermediate Italian I (3)
Review of Italian grammar and syntax. Introduction to Italian literature through short readings of intermediate difficulty. Composition and conversation in Italian based on reading assignments. Language laboratory for remedial drill.

### Ita 202 Intermediate Italian II (3)
A Continuation of Ita 201 with increased emphasis on free composition and conversation.

## LATIN

### Lat 101 Beginning Latin I (3)
For students who have had no previous Latin. Forms, syntax, and idioms of classical Latin. Selected readings.

### Lat 102 Beginning Latin II (3)
A continuation of Lat 101. Records and tapes in Latin to supplement class work.

### Lat 201 Cicero (3)
Selections from the orations, letters, and essays. *Prereq*: Lat 101, 102, or two years of secondary school Latin.

### Lat 202 Vergil (3)
Reading and analysis of celebrated portions of the *Aeneid.* The nature of Latin epic poetry. *Prereq*: Lat 201 or three years of secondary school Latin.
Note: *Prereq to courses 301-406*: *Lat 202, or four years of secondary school Latin.*

### Lat 301 Teaching of Latin (3)
Introduction to the problems, methods, and materials in the teaching of Latin.

### Lat 302 The Latin Lyric Poets (3)
Latin lyric poetry through readings in Catullus and the Odes and Epodes of Horace. Practice in the composition of lyric poetry.

### Lat 303 Advanced Latin Prose Composition (3)
Required of Latin majors; open to other students accepted by the instructor. The complex syntactical structures of Latin and of classical style. Translations of English prose into classical Latin.

### Lat 304 The Latin Elegiac Poets (3)
Latin elegiac poetry through readings, in Ovid, Tibullus, Lygdamas, Sulpicia, and Propertius. Practice in the composition of the elegiac poetry.

### Lat 305 Reading Course in Latin (3)
Open to Latin majors only. Area and content to be determined by students' needs.

### Lat 306 Roman Historians (3)
Introduction to Roman historiography. Readings in Livy, Sallust, and Tacitus.

### Lat 401 Roman Drama (3)
Origins and development of Roman drama. Selected plays of Plautus, Terence, and Seneca.

### Lat 402 Roman Philosophy (3)
Introduction to Greek and Roman philosophy. Readings in Cicero, *Tusculan Disputations,* and Lucretius, *De Rerum Natura.* Cicero presents mainly the Platonic view; Lucretius argues in epic verse for Epicurus' creed.

### Lat 403 Roman Satire (3)

Origins and development of Roman satire. Readings in Horace, Persius, and Juvenal.

### Lat 404 The Latin Novel (3)

Readings in Petronius, *Satyricon,* and Apuleius, *The Golden Ass.* Lectures and discussion of the emergence of the novel as a literary form.

### Lat 405 Medieval Latin (3)

Prose and poetry from the fourth to the seventeenth centuries.

### Lat 406 Latin Tutorial Course (3)

Required of majors in Latin or Classics; open to other students accepted by the instructor. Introduction to the history of the alphabet; principles of historical and comparative linguistics, especially as applied to Greek and Latin; and history of the Latin language as seen in ancient authors and inscriptions.

## RUSSIAN

### Rus 101 Beginning Russian I (3)

Fundamentals of Russian grammar, syntax, and pronunciation. Extensive drill in the language laboratory is required. One class hour per week in the language laboratory.

### Rus 102 Beginning Russian II (3)

A continuation of Rus 101 with increased emphasis on reading and conversation in Russian. Language laboratory drill required.

### Rus 201 Intermediate Russian I (3)

Grammar review with readings in Russian literature as a basis for class discussion in Russian and practice in composition. Language laboratory drill recommended for those needing further work in pronunciation and intonation. *Prereq*: Rus 102 or the equivalent.

### Rus 202 Intermediate Russian II (3)

A continuation of Rus 201 with more extensive practice in composition and conversation.

Note: *All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.*

### Rus 203 Advanced Russian Grammar and Composition (3)

The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on correct usage. *Prereq*: Rus 202 or equivalent.

### Rus 204 Advanced Oral Russian (3)

Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. *Prereq*: Rus 203 or equivalent.

### Rus 205 Advanced Readings in Russian Literature I (3)

Works of Pushkin, Lermontov, Turgenev, and Gorki will be read and analyzed. *Prereq*: Rus 202 or the equivalent.

### Rus 206 Advanced Readings in Russian Literature II (3)

A continuation of Rus 205.

### Rus 303 Scientific Russian I (3)

Review of syntax; reading and translation in general science and basic technical fields. *Prereq*: Rus 202 or equivalent.

### Rus 304 Scientific Russian II (3)

A continuation of Rus 303.

### Rus 401 The Russian Novel (3)

The Russian novel and literary trends of the nineteenth and twentieth centuries. *Prereq*: Rus 205 or equivalent.

### Rus 402 The Russian Drama (3)

Works of the major Russian dramatists of the nineteenth and twentieth centuries. *Prereq*: Rus 205 or equivalent.

### Rus 410 Honors Seminar in Russian (3)

Independent study and research for upper division students who qualify under the Honors Program in Foreign languages.

### Rus 411 Honors Seminar In Russian (3)

Independent study and research for upper division students who qualify under the Honors Program in foreign languages. Rus 410 is not prerequisite. A student may take Rus 410 or 411 or both.

## SPANISH

### Spa 101 Elementary Spanish I (3)
Fundamentals of Spanish grammar, syntax, and pronunciation from the oral-aural point of view. Introduction to Spanish culture through easy reading texts. Language laboratory one hour a week.

### Spa 102 Elementary Spanish II (3)
A continuation of Spa 101 with emphasis on reading and conversation in Spanish with the aim of increasing oral-aural skills in the language. Language laboratory one hour a week.

### Spa 201 Intermediate Spanish I (3)
Review of Spanish grammar and syntax. Readings in Spanish literature as a basis for class discussion in Spanish and practice in composition. Language laboratory drill recommended for remedial work where needed. *Prereq*: Spa 102 or equivalent.

### Spa 202 Intermediate Spanish II (3)
A continuation of Spa 201 with extensive practice in composition and conversation on a more advanced level.

Note: *All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.*

### Spa 203 Advanced Spanish Grammar and Composition (3)
The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on correct usage. *Prereq*: Spa 202 or equivalent.

### Spa 204 Advanced Oral Spanish (3)
Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. *Prereq*: Spa 203 or equivalent.

### Spa 205 Survey of Spanish Literature [Golden Age] (3)
Spanish literature from its earliest beginning to the eighteenth century with special emphasis on the literature of the Golden Age. *Prereq*: Spa 202 or equivalent.

### Spa 206 Survey of Spanish Literature [since 1800] (3)
Spanish literature from 1800 to the present. *Prereq*: Spa 202 or equivalent.

### Spa 304 Spanish Civilization (3)
Major contributions of Spain from an eclectic point of view. Cultural, geographical, literary, philosophical, and artistic manifestations of the Hispanic world are studied, appreciated, and evaluated. *Prereq*: Spa 201 or equivalent.

### Spa 401 Spanish-American Literature (3)

Spanish-American literature and the present trends. *Prereq*: Spe 202 or equivalent.

### Spa 402 Contemporary Spanish Literature (3)

Contemporary Spanish literature against the background of twentieth century literary trends. *Prereq*: Spa 202 or equivalent.

### Spa 403 The Spanish "Comedia" (3)

The Spanish "Comedia," with the major trends of the Spanish Golden Age. *Prereq*: Spa 205.

### Spa 404 The Picaresque Novel (3)

The picaresque novel in its uniquely Spanish aspects. Lazarillo de Tormes, Guzman de Alfarache, and others. *Prereq*: Spa 205.

### Spa 410 Honors Seminar in Spanish (3)

Independent study and research for upper division students who qualify under the Honors Program in foreign languages.

### Spa 411 Honors Seminar in Spanish (3)

Independent study and research for upper division students who qualify under the Honors Program in foreign languages. Spa 410 is not prerequisite. A student may take Spa 410 or 411 or both.

## COURSES COMMON TO ALL LANGUAGES

### Lan 301 Teaching of Modern Languages (3)

Problems, methods, and materials of the teaching of modern languages. Observation of foreign language classes in session. *Prereq*: completion of intermediate level in the chosen foreign language.

### Lan 302 Applied Linguistics (3)

Methods of modern linguistic science as applicable to the study and teaching of the major European languages. Principles of structural analysis of living languages and historical linguistics.

### Lan 303 Foreign Languages in the Elementary School (3)

Techniques and materials used in teaching foreign languages in the elementary school. Practice in the application of these techniques and observation of foreign-language classes in the Laboratory School. *Prereq*: completion of intermediate level in the chosen foreign language.

**Lan 340 (Also Ant 340) Introduction to Linguistics (3)**
Introduction to phonological, morphological, and syntactical language analysis; historical reconstruction; language classification and lexico-statistical dating. Designed for other students as well as language and anthropology majors.

**Lan 360 [also Phi 360] Philosophy of Language**
Questions of meaning in communication. Emphasis on contemporary discussion of theories of natural language.

**Lan 380 (Also Ant 380) Language and Culture (3)**
Language as an aspect of culture; linguistic-perceptual-cognitive categories; social and psychological aspects of language. *Prereq*: Lan 340 or permission of instructor.

FRENCH See Department of Foreign Languages

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## DEPARTMENT OF GEOGRAPHY

Alvin S. Keinard, *Chairman*

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**Geo 100 Physical Geography (3)**
Basic principles of physical geography in relation to the total geographic concept. The total earth physical environment.

**Geo 101 World Geography (3)**
Varied patterns of the natural environment throughout the world. Man's economic and cultural responses to environmental situations.

**Geo 200 Geography of World Cultures (3)**
An examination of selected geographic areas, representing different stages of development, in the contemporaneous world. Emphasis is on environmental adaptation and the resultant problems and prospects confronting the human occupants of these areas. *Prereq*: Geo 101.

**Geo 201 Conservation of Natural Resources (3)**
The wise use of our natural resources and the problems of resource management. *Prereq*: Geo 101.

**Geo 202 Geography of the United States and Canada (3)**
A regional study of the United States and Canada; man's adjustment to his physical environment. Political adjustments to the geographic environments and relations between the two countries. *Prereq*: Geo 101.

### Geo 203 Economic Geography (3)
Modern trends and problems of the economic growth of the United States. The changing wants and needs of man in regard to agriculture, industry, and world resources. *Prereq*: Geo 101.

### Geo 204 Geography of Pennsylvania (3)
A regional study of Pennsylvania; man's cultural and economic responses to environmental factors. Urbanization, people, agriculture, landforms, resources, and industries.

### Geo 205 Geomorphology (3)
Dynamic constructive and gradational forces which have shaped the present landforms and are constantly reshaping and modifying them. Interpretation of geologic and topographic maps; field studies. Field trips required. *Prereq*: Geo 100.

### Geo 206 Introduction to Climatology (3)
A basic study of the atmosphere. Analysis of the laws and principles of atmospheric change in relation to weather and climate. Practical experience with weather instruments, weather maps, and data. A survey of classification of world climates. *Prereq*: Geo 100.

### Geo 207 Geography of Europe (3)
A regional study of Europe. Geographic relationships underlying land uses, international problems, and boundary disputes. The Soviet Union is not included. *Prereq*: Geo 101.

### Geo 208 Geography of Latin America (3)
A regional study of Middle and South America; man's responses to environmental factors such as climate, landforms, and resources. *Prereq*: Geo 101.

### Geo 209 The United States in its Global Relationships (3)
The strategic role of the United States in world relationships, both political and economic, viewed from the vantage point of America's geographic characteristics; influences of American policies on the whole of the globe. *Prereq*: Geo 101.

### Geo 210 Geographic Influences in American History (3)
Geographic characteristics which bore prominently on the discovery and colonization of America and the progressive development of the United States up to the twentieth century.

### Geo 211 Map Appreciation and Interpretation (3)
The appreciation and understanding of maps. Reading and interpreting large-scale topographic maps; special purpose maps.

### Geo 212 Geography of Modern Industry and Commerce (3)
Economic geography: marketing, industrial trends, locational theory, trading area patterns, and developing aspects of the commercial world in the perspective of geographic factors.

### Geo 301 Introduction to Physical Geology (3)
The earth's crust; materials and structures of landforms. Required field work, study of rocks and minerals, topographic and geologic maps. Field trips required. *Prereq*: Geo 101.

### Geo 302 Climatology (3)
Climatic variations of the earth and their classification into regional types. Biological soil and cultural relationships of the climatic types. *Prereq*: Geo 206.

### Geo 303 Cartography (3)
Utilizing modern map-making techniques, the geography major develops and constructs maps and other graphic tools which serve special purposes in teaching and research. Four hours lecture.

### Geo 304 Geography of Asia (3)
Southwestern and Southeastern Asia; the cultural aspects of race, religion, economic and political factors. *Prereq*: Geo 101.

### Geo 305 Geography of the Far East (3)
A detailed study of China and Japan. Other areas included: Korea, the Philippine Islands, Taiwan, and the Outer Pacific Islands. *Prereq*: Geo 101.

### Geo 306 Geography of Africa (3)
Historic and present-day aspects of race, religion, tribal organizations, and other elements of African life as geography relates to them. *Prereq*: Geo 101.

### Geo 307 Geography of the U. S. S. R. (3)
European and Asiatic U.S.S.R. Positive and negative factors in the geography of Russia in relation to its strengths and weaknesses as a world power. *Prereq*: Geo 101.

### Geo 308 Trade and Transportation (3)
International trade and transportation systems for this trade. Economic trading blocs. *Prereq*: Geo 101.

### Geo 309 World Problems in Geography (3)
Major world problems in terms of their geographic settings. Problems of population growth, economically underdeveloped nations, control and development of natural resources, keeping the peace, etc. *Prereq*: Geo 101.

### Geo 310 Geography Field Study Methods (3)

Introduction to the methods and materials of field research in geography. Field trips required. *Prereq*: Geo 101.

### Geo 311 Teaching Geography in Secondary Schools (3)

Modern techniques of teaching geography, current curricula, and the tools of geography. Experience in teaching geography lessons and classroom observance are required. *Prereq*: Geo 101 and six additional geography credits.

### Geo 313 Geography of Population (3)

Regional variations in the distribution of man. Numbers, past and present, to demographic characteristics of the population and migrations of populations. *Prereq*: Geo 101.

### Geo 314 Geography of the United States and Pennsylvania (3)

A regional study of the United States; especially Pennsylvania. Physical factors such as climate, relief, vegetation, soils, and resources explain distribution of population, land use, trade, etc. *Prereq*: Geo 101.

### Geo 315 Aerial Photographic Interpretation (3)

Identifying objects and conditions in aerial photography; determining their significance. Both physical and cultural qualities are emphasized. *Prereq*: Geo 211 or consent of instructor.

### Geo 316 Political and Military Geography of the United States

An introduction to basic political geography with emphasis on the geography of World War II and geographic aspects of more recent conflicts affecting the United States. *Prereq*: Geo 101.

### Geo 400 Senior Seminar in Geography (3)

Research in geography. Methodology, bibliography, and presentation, both written and oral. The research paper for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all geography majors.

### Geo 410 Independent Studies in Geography (1 to 3)

Special research projects, reports, readings in geography. Open to seniors and Honors Program students only. *Prereq*: permission of department chairman.

### Geo 412 Geography of Australia and Associated Islands (3)

Native and introduced flora and fauna in and near Australia. The importance of agriculture and the grawing industrialization of Australia. *Prereq*: Geo 101.

**Geo 414 Urban and Regional Planning (3)**
The regional method of analysis of the problems of urban and regional planning. Systems, housing, recreation, industry, and commerce. *Prereq:* Geo 101.

**Geo 415 Geography Area Field Study (3, 6, or 9)**
Field courses for travel and study in the United States and foreign countries. Analysis of field study findings compiled into term reports. Costs vary with each course offering. Admission by approval of department chairman.

**Geo 416 Seminar in Special Studies in Geography (2 to 3)**
A specialized course in a phase of geography, taught by a specialist in the area of study. For seniors (and, in some cases, juniors). Admission by approval of department chairman.

GEOLOGY See Earth, Space, and General Sciences

GERMAN See Department of Foreign Languages

GREEK See Department of Foreign Languages

## SCHOOL OF HEALTH AND PHYSICAL EDUCATION

Edwin L. Youmans, *Interim Dean*

Edward N. Norris, *Acting Associate Dean for Graduate Studies*

Edwin B. Cottrell, *Assistant to the Dean*

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## DEPARTMENT OF HEALTH EDUCATION

Walter E. Funk, *Chairman, Department of Health Education*

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**HEd 150 Health** **(2 hrs. 2 cr.)**

Health needs of the college student are discussed.

**HEd 151 Personal Health I** **(3 hrs. 3 cr.)**

Principles and practices of personal health, with attention to desirable attitudes for healthful living.

**HEd 152 Personal Health II** **(3 hrs. 3 cr.)**

Extension of HEd 151, covering the fundamental knowledge necessary to prevent, recognize, and correct personal health problems. *Prereq*: HEd 151.

**HEd 252 First Aid and Care and Prevention of Athletic Injuries** **(3 hrs. 2 cr.)**

Administering first aid in the school situation; preventing injury during sports activities; care for the injured.

**HEd 253 The School Health Program** **(3 hrs. 2 cr.)**

School health services, school environment, and health instruction. Ways of promoting school-community cooperation in health areas.

**HEd 350 Health for the Elementary Grades** **(3 hrs. 3 cr.)**

Principles and procedures for meeting the health needs of the child in the school, home, and community.

**HEd 351 Human Development** **(3 hrs. 3 cr.)**

A study of growth from conception through adolescence. Methods of studying pupils, influences on growth, and characteristic development at various age levels. Implications for the health and physical education program are stressed.

**HEd 352 Methods and Materials in Health Education** **(3 hrs. 2 cr.)**

A comprehensive study of school health instruction. Files of curriculum materials and instructional aids are completed in this course as a prerequisite to student teaching.

**HEd 353 First Aid for Teachers** **(2 hrs. 2 cr.)**

Advanced first aid and techniques for teaching first aid. Successful completion of this course may qualify the student as a first-aid instructor.

**HEd 354 Seminar in Health Education** **(3 hrs. 3 cr.)**

A course for health and physical education seniors. Basic concepts in health education, with emphasis on readings, discussions, and projects. *Prereq*: completion of the student-teaching experience.

**HEd 355 Nutrition** **(2 hrs. 2 cr.)**

A practical approach to the role foods play in relationship to growth, development, and general well being. Classifications of foods and their values at different life stages. Food fads; fallacies about foods.

**HEd 356 Family Life Education** **(4 hrs. 3 cr.)**

Includes the basic concepts and objectives of such a program for students at different age levels. The roles played by the school, the home, and religion. Organizing, launching, and evaluating a family life education program.

**HEd 357 Community Health** **(2 hrs. 2 cr.)**

Principles and problems of community health. Community health problems and health services on the local, state, national, and international levels are considered.

**HEd 358 Field Experience in Community Health** **(2 hrs. 1 cr.)**

Practical experience in work with existing community health agencies in the area. Majors in Health Education are required to take HEd 357 and HEd 358 concurrently.

**HEd 359 Field Experience in Health Education** **(2 hrs. 1 cr.)**

Exposure to the practical problems of health education in the classroom. An opportunity to observe and aid the established classroom teacher, prior to student teaching. Majors in Health Education are required to take HEd 352 and HEd 359 concurrently.

**HEd 451 Community and School Health Education Workshop** (3 hrs. 3 cr.)

A study of common problems in health education for the home, community, and school.

**HEd 452 Mental Health Workshop** (3 hrs. 3 cr.)

A workshop designed to help educators improve their understanding of themselves and their students. Emphasis is on ways to recognize mental-health problems.

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## DEPARTMENT OF PHYSICAL EDUCATION

Melvin M. Lorback, *Chairman, Department of Physical Education*

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**PEd 101 Physical Activities I** (2 hrs. 1 cr.)

Offers a program of activities selected from the following categories: aquatics, individual sports, physical conditioning, and team sports.

**PEd 102 Physical Activities II** (2 hrs. 1 cr.)

Offers a program of activities selected from the following categories: aquatics, individual sports, physical conditioning, and team sports.

**PEd 107 Eurythmics** (2 hrs. 1 cr.)

Survey of dance with experience in fundamental locomotor and axial movement. Specific dance forms such as square, round, contra, folk, and social dancing.

**PEd 110 Introduction to Formal Gymnasium Activities (Men)** (3 hrs. 1 cr.)

An introductory course in marching, gymnastic exercises, games, weight and circuit training, rope climbing, Indian clubs, wands, etc.

**PEd 111 Soccer, Speedball, and Basketball (Women)** (3 hrs. 1 cr.)

Foundations course stressing skills in basketball; individual skills, team tactics, and officiating techniques in soccer and speedball.

**PEd 112 Introduction to Tumbling and Vaulting (Men)** (3 hrs. 1 cr.)

An introduction to tumbling and vaulting, including trampoline and springboard.

**PEd 113 Gymnastics and Fundamental Exercises (3 hrs. 1 cr.)**
**(Women)**

Apparatus skills for beginners, with stunts, tumbling, and pyramids for different age levels.

**PEd 120 Individual Sports for Men (3 hrs. 1 cr.)**
**(Men)**

Individual sports and recreational activities, including tennis, golf, volleyball, softball, tetherball, table tennis, handball, winter sports.

**PEd 121 Lacrosse and Track and Field (3 hrs. 1 cr.)**
**(Women)**

Foundations course stressing skills in lacrosse and track and field.

**PEd 122 Soccer and Wrestling (3 hrs. 1 cr.)**
**(Men)**

Teaching soccer and wrestling with emphasis on units of instruction for the elementary, junior high, and senior high levels. Lead-up games, related activities, fundamental skills and techniques, drills, and experience in cohesive team effort.

**PEd 123 Hockey and Volleyball (3 hrs. 1 cr.)**
**(Women)**

Foundations course stressing skills in field hockey; individual skills, team tactics, and officiating techniques in volleyball.

**PEd 130 Aquatic Fundamentals (3 hrs. 1 cr.)**
**(Men)**

Analysis and practice of the basic swimming strokes; introduction to diving and competitive swimming; speed strokes, racing starts, turns, and relay races; floating and endurance swimming; games, stunts, and exhibitions; recreational aquatics and synchronized swimming formation.

**PEd 131 Aquatic Fundamentals (3 hrs. 1 cr.)**
**(Women)**

Basic principles of swimming for all age and ability levels. The organization and administration of competitive swimming for women is studied.

**PEd 132 Life Saving and Water Safety (3 hrs. 1 cr.)**
**(Men)**

Diagnosis and practice of life saving skills and techniques. Boating, canoeing, and other waterfront activities are studied. Successful completion of this course may enable the student to receive senior life saving certification from the American Red Cross.

**PEd 133 Life Saving and Water Safety (Women)** **(3 hrs. 1 cr.)**

Continued emphasis on basic principles, and advanced skills in swimming. Life saving practices, safety and survival techniques. Synchronized swimming, stunts, formations, and routines. The course may lead to certification by the American Red Cross.

**PEd 201 Practice and Theory in Elementary Physical Education** **(2 hrs. 1 cr.)**

The basic organization of the physical education program in elementary schools. Principles in teaching games and other recreational activities. Planning and directing the physical education period in the elementary school program.

**PEd 202 Dance Activities in the Elementary Program** **(2 hrs. 1 cr.)**

Fundamental rhythm, creative rhythms, singing games, and folk dances on the elementary level. Students acquire skills in these areas and are given leadership experience in class situations.

**PEd 210 (Men) Preparation for Teaching Elementary Physical Education** **(3 hrs. 1 cr.)**

Methods for teaching games, story plays, self-testing activities, tumbling, and stunts on apparatus at the elementary level.

**PEd 211 (Women) Preparation for Teaching Elementary Physical Education** **(3 hrs. 1 cr.)**

See description for PEd 210 above.

**PEd 212 Introduction to Heavy Apparatus (Men)** **(3 hrs. 1 cr.)**

Fundamentals of movement and apparatus including rings, parallel bars, horizontal bars, side horse, and floor exercises.

**PEd 213 Advanced Gymnastics (Women)** **(3 hrs. 1 cr.)**

Advanced apparatus, tumbling, pyramids, rhythmical exercises.

**PEd 220 Football and Track and Field (Men)** **(3 hrs. 1 cr.)**

Teaching football and track and field, with emphasis on units of instruction for the elementary, junior high, and senior high levels. Lead-up games, related activities, fundamental skills and techniques, drills, and experience in cohesive team effort.

**PEd 221 Advanced Hockey, Lacrosse, Track and Field (Women)** (3 hrs. 1 cr.)
Advanced fundamentals and team tactics in hockey, lacrosse, and track and field.

**PEd 222 Basketball and Baseball (Men)** (3 hrs. 1 cr.)
Teaching basketball and baseball, with emphasis on units of instruction for the elementary, junior high, and senior high levels. Lead-up games, related activities, fundamental skills and techniques, drills, and experience in cohesive team effort.

**PEd 223 Basketball and Tennis (Women)** (3 hrs. 1 cr.)
Advanced fundamentals and team tactics in basketball; fundamental skills in tennis.

**PEd 240 (Men) Elementary Rhythms and Folk Dancing** (3 hr. 1 cr.)
Fundamental locomotor and axial movements; music and rhythm in relationship. Rhythmical activities for the elementary program, with suggested teaching methods.

**PEd 241 (Women) Elementary Rhythms and Folk Dancing** (3 hrs. 1 cr.)
See description for PEd 240 above.

**PEd 242 (Men) Social and Square Dancing** (3 hrs. 1 cr.)
Rounds, squares, contras, mixers and social dancing. Curricula implications and teaching methods integrated into the course.

**PEd 243 (Women) Social and Square Dance** (3 hrs. 1 cr.)
See description for PEd 242 above.

**PEd 261 History and Philosophy of Physical Education** (2 hrs. 2 cr.)
A study of past and present concepts of physical education; philosophy and principles of modern physical education programs.

**PEd 310 (Men) Preparation for Teaching Secondary Physical Education** (3 hrs. 1 cr.)
Class practice in teaching games, athletics, sports, and gymnastic activities, and developments of activity lesson plans suitable for grades 7-12.

**PEd 311 (Women) Preparation for Teaching Secondary Physical Education** (3 hrs. 1 cr.)
See description for PEd 310 above.

**PEd 312 Special Events in Physical Education (2 hrs. 1 cr.)**

Planning and executing special events such as May Days, festivals, sports days, assembly programs, and field days.

**PEd 322 Advanced Team Sports I (3 hrs. 1 cr.)**
**(Men)**

Both PEd 322 and PEd 324 concentrate intensively on theoretical and practical approaches to teaching selected activities for advanced levels of performance such as interscholastic sports. In either course, students choose two of the four activities offered. The nine-week concentration on each selection includes study of physiological requirements specific to the activity, refined drills, analysis of positions, tactics, etc. Officiating and scouting procedures are included. Sports offered in PEd 322 are: advanced basketball, football, soccer, track and field.

**PEd 323 Tennis, Softball; Basic Officiating of Hockey and Basketball (3 hrs. 1 cr.)**
**(Women)**

Advanced strategy, individual skills, and officiating techniques in tennis. Techniques and team tactics in softball. Basic officiating techniques and practical experience in hockey and basketball.

**PEd 324 Advanced Team Sports II (3 hrs. 1 cr.)**
**(Men)**

See above description for PEd 322. Sports offered in PEd 324 are: advanced baseball, golf and tennis, gymnastics, and wrestling.

**PEd 325 Badminton, Golf, and Archery (3 hrs. 1 cr.)**
**(Women)**

Development of skills in archery, golf, and badminton.

**PEd 331 Aquatic Leadership (3 hrs. 2 cr.)**

Leadership procedures in aquatic activities for schools and school camps. Swimming strokes and life saving techniques are analyzed. The student has an opportunity to qualify as a waterfront safety instructor.

**PEd 341 Modern Dance I (2 hrs. 1 cr.)**

Techniques and fundamentals of modern dance on a beginner level. Methods and materials to prepare teachers for a public school program.

**PEd 342 Modern Dance II (2 hrs. 2 cr.)**

Intermediate and advanced technique, choreography, and rhythmic training. Experience in organizing and participating in dance concerts.

**PEd 343 Principles of Choreography** **(2 hrs. 2 cr.)**

The art of dance composition. Basic elements of space, rhythm, and motion dynamics. Students design original movement, progressing from simple to complex solo and group forms.

**PEd 344 Dance in Theater Arts** **(2 hrs. 2 cr.)**

Dance as a performing art. Past and contemporary theatrical dance forms; accompaniment, costume, sets, and lighting. Students stage complete theatrical productions.

**PEd 345 Advanced Folk Dance** **(2 hrs. 2 cr.)**

Review of all basic folk dance steps and their use in advanced folk dance. Study of folk dance as a vivid picture of national life. Opportunities for staging the folk dance.

**PEd 346 Advanced Social and Square Dance** **(2 hrs. 2 cr.)**

Advanced forms of social and square dance. Development of techniques for leading, following, and refinement of style. Opportunities for staging both social and square dance.

**PEd 355 Kinesiology** **(2 hrs. 2 cr.)**

Fundamentals of human movement; application to physical education skills.

**PEd 361 Tests, Measurements, and Statistics in Health and Physical Education** **(3 hrs. 3 cr.)**

Selecting, administering, scoring, and evaluating tests of physical fitness, general motor ability, motor educability, and skill and knowledge in sports.

**PEd 362 Physical Education for the Elementary Grades** **(7 hrs. 3 cr.)**

Students are assigned to elementary schools in the service area for observation and teaching. The course includes a weekly seminar on theory and problems.

**PEd 363 (Women) Organization and Administration of Physical Education and Athletics** **(3 hrs. 2 cr.)**

Principles of program building in curricular and extracurricular physical education; organizing, administering, and supervising intramural and interscholastic athletic programs. *Prereq*: PEd 361.

**PEd 364 (Men) Organization and Administration of Physical Education and Athletics** **(3 hrs. 2 cr.)**

See description for PEd 363 above.

**PEd 365 Physical Activities for Atypical Children I** **(2 hrs. 2 cr.)**
An introductory course in adapted physical education. Common childhood disabilities are studied, with emphasis on problems of a chronic nature.

**PEd 367 Arts and Crafts in Recreation** **(3 hrs. 3 cr.)**
Theoretical and practical applications of arts and crafts as recreative outlets for all age groups. Arts and crafts materials customarily found in school, camp, and community recreation programs are used.

**PEd 370 Camping and Outing** **(3 hrs. 3 cr.)**
Theory and practice in camping and outing programs, approached from viewpoints of the camper, the counselor, the supervisor, the specialist, and the director.

**PEd 375 Officiating Women's Sports** **(3 hrs. 2 cr.)**
Ethics and techniques of officiating at secondary school and college games. An official's rating in at least one sport may be acquired.

**PEd 377 Theories and Practices of Training and Conditioning** **(2 hrs. 2 cr.)**
Theory of sports medicine; administration of an athletic training program including medical coverage, facilities, equipment, and diet; prevention and care of common injuries. *Prereq*: HEd 252.

**PEd 378 Facilities and Equipment in Health and Physical Education** **(2 hrs. 2 cr.)**
Principles and procedures of planning. Practical and functional design of indoor and outdoor areas and facilities. Attention is given to the Pennsylvania Department of Education's regulations governing planning for public school facilities.

**PEd 390 Physical Disabilities of Childhood** **(3 hrs. 2 cr.)**
A course designed for students in special education. Common orthopedic and neurological disabilities of childhood, especially chronic deviations. Emphasis is on understanding the medical aspects and problems of rehabilitation.

**PEd 391 Psychology of the Physically Handicapped** **(3 hrs. 3 cr.)**
A course designed for students in special education. Psychology applied to physical disability; personal and cultural implications of handicaps; the psychodynamics of disability.

**PEd 392 Introduction to Physical Therapy** **(2 hrs. 2 cr.)**
An introductory course for men and women planning to enter a graduate school of physical therapy. Emphasis is on basic biological and physical science pertinent to physical therapy. *Prereq*: Bio 261, 262.

**PEd 455 Applied Physiology** (3 hrs. 3 cr.)
A functional course applying physiological principles of neuromuscular activity to the frame of reference of the physical educator. Through a clinical approach, the course acquaints the student with basic aspects of neuromuscular coordination and motor learning, strength development, endurance, and human motion. *Prereq*: Bio 261, 262.

**PEd 461 Physical Activities for Atypical Children II** (2 hrs. 2 cr.)
Continued study of adapted physical education, including screening and practical training in working with physically and mentally handicapped children.

**PEd 462 Principles of Recreation** (2 hrs. 2 cr.)
Historical background of the play movement; theoretical explanations of play; the need for it in modern life and its place in education and recreation. Methods of recreation leadership.

**PEd 463 (Women) Principles of Coaching** (2 hrs. 2 cr.)
Principles and methods of coaching sports in the school program.

**PEd 464 (Men) Principles of Coaching** (2 hrs. 2 cr.)
See description for PEd 463 above.

**PEd 465 Elementary Physical Education Curriculum** (3 hrs. 3 cr.)
Constructing and evaluating the curriculum in elementary physical education. Progression and continuity, along with developmental needs and interests of children, are considered.

**PEd 466 Self-Testing Activities in Elementary School Physical Education** (2 hrs. 2 cr.)
For elementary education majors. Supplements PEd 201 and PEd 202. Stunts, tumbling, apparatus, mimetics and sports skills. Testing procedures for determining physical fitness and motor skills.

**PEd 467 Supervised Camping Leadership** (3 cr.)
A program in camp leadership at children's summer camps. This field experience aids the student's professional growth through work with children in the informal atmosphere of camp. *Prereq*: consent of instructor.

**PEd 471 Student Teaching in the Secondary School, including Professional Practicum** (12 cr.)
Observation and participation in teaching situations in the junior and senior high schools under qualified cooperating teachers and college supervisors. A program of professional conferences and visitations is provided throughout this teaching semester.

## HIGHWAY SAFETY AND GENERAL SAFETY EDUCATION

**PEd 481 Education for Safe Living** **(3 hrs. 3 cr.)**
Survey of safety education. Philosophy, need, history, and psychology of accident prevention, with emphasis on the safety program in school, industry, community, and traffic. Legal responsibilities of the teacher for maintaining a safe environment are considered.

**PEd 482 Principles and Practices of Driver Education and Traffic Safety** **(3 hrs. 3 cr.)**
Fundamentals of driver education. Techniques for assessing the knowledge, skill, and psycho-physical characteristics of beginning drivers.

**PEd 483 Preparation for Teaching Driver and Traffic Safety Education** **(3 hrs. 3 cr.)**
Techniques for effective teaching in the automobile and classroom. Opportunities to teach in the classroom and on the road. These experiences are evaluated and analyzed by the instructor.

**PEd 484 Methods and Materials of Safety Education** **(3 hrs. 3 cr.)**
A study of the total safety program, with emphasis on the teaching of safety. Each student prepares a practice lesson.

**PEd 485 Safety Concepts, Emergency Procedures, and Injury Management** **(3 hrs. 3 cr.)**
Functions and responsibilities of teachers during natural and man-made disasters. First aid for accidents or sudden illness in the school; care and prevention of athletic injuries.

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# DEPARTMENT OF HISTORY

Robert E. Carlson, *Chairman*

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## GENERAL

**SSc 300 Seminar in Contemporary European Culture (6)**
A fully guided six-week summer tour which offers a cross-section of Europe, past and present, through visits to museums, galleries, cathedrals, universities, music festivals, and operas. Seminars and lectures by European academicians. *Summer.*

### SSc 331 Teaching Social Studies in Secondary Schools (3)

Designed to expose prospective secondary school teachers to methods and materials of teaching social studies. Emphasis is on the "New Social Studies" and on instructional materials drawn from the social sciences. Taken by social science education majors in their junior year.

## HISTORY

### His 101 History of Civilization I (3)

The evolution of man's cultural elements and social institutions in the West and the East from earliest times through the Renaissance.

### His 102 History of Civilization II (3)

Developments in civilizations from 1500 to the present, with emphasis on Western Civilization and its interrelationships with the non-Western world.

### His 111 Western Civilization to 1300 A.D. (3)

A study of the civilization of the river valleys of the Ancient Near East, Greece, and Rome, and the Medieval Pattern of Western Civilization. Open only to history majors in liberal arts or with American history or world cultures concentrations in teacher education, or by permission of the chairman.

### His 112 Western Civilization, 1300-1815 (3)

The Renaissance, Reformation, Commercial Revolution and Rise of Capitalism, Enlightenment, modern Nation-State, Industrial Revolution, Age of Political Revolutions. A continuation of His 111. Open only to history majors in liberal arts or with American history or world cultures concentrations in teacher education, or by permission of the chairman.

### His 113 Western Civilization, 1815-Present (3)

A survey of the European World in the nineteenth and twentieth centuries with focus upon such common European movements as industrialism, nationalism, democracy, and socialism. A continuation of His 111 and 112. Open only to history majors in liberal arts or with American history or world cultures concentrations in teacher education, or by permission of the chairman.

### His 114 The Non-Western World (3)

A survey of Far Eastern, Indian, and African history, with emphasis on the relationships of these areas with Western Civilization. Open only to history majors in liberal arts or with American history or world cultures concentrations in teacher education, or by permission of the chairman.

### His 211 History of United States I (3)
A survey of the social, economic, political, and intellectual development of the United States from the beginning of the Colonial period to the end of the Civil War. Required of all history and social sciences majors. *Prereq*: His 101, 102 or 111, 112, 113.

### His 212 History of United States II (3)
A survey of the social, economic, political, and intellectual development of the United States from 1865 to the present, with emphasis on the new industrialism and on foreign affairs. Required of all history and social sciences majors. *Prereq*: His 101, 102 or 111, 112, 113.

### His 218 The Ancient World (3)
Classical Greece and Rome with consideration of economic, social, intellectual, and political history. Selected writings of the ancients. *Prereq*: His 101 or 111.

### His 219 Medieval Europe (3)
Western Europe from the fall of Rome to approximately 1300. Economic, social, political, and intellectual developments in the major kingdoms of the West; the history of the Universal Church. *Prereq*: His 101 or 111.

### His 220 Renaissance and Reformation (3)
Political, economic, social, and cultural forces which emerged during 1300 to 1650 in Europe. The evolution of modern states and the rise of the middle class. *Prereq*: His 101 or 102 or 112.

### His 313 History of Pennsylvania (3)
The founding and development of Pennsylvania from its Colonial beginnings to the present time, with emphasis on the relation of the past to the present. *Prereq*: His 211, 212.

### His 314 Diplomatic History of the United States (3)
A survey of the theory and practice of American diplomacy from Colonial times to the present. The major segment covers 1900 to the present. *Prereq*: His 211, 212.

### His 315 Economic History of the United States (3)
The economic development of the American nation as it evolved from a frontier, agricultural country into an urban industrial power. *Prereq*: His 211, 212.

### His 316 History of the American Frontier (3)
The westward movement and expansion from Colonial times to the end of the nineteenth century. The frontier forces which shaped American democratic institutions and ideals. *Prereq*: His 211, 212.

### His 317 History of American Science and Technology (3)
The importance of science, invention, and technology in the rise of the American nation from 1607 to the present. The transition from domestic manufacture to the machine age. *Prereq*: His 211, 212.

### His 318 Constitutional History of the United States (3)
The development of the Constitution of the United States from the Philadelphia Convention to the present with emphasis on major Supreme Court decisions. *Prereq*: His 211, 212.

### His 319 Social and Cultural History of the United States (3)
The evolution of American society from the eighteenth through the twentieth centuries. Emphasis on the impact of improving material conditions upon labor, the arts, education, religion, social mores, and family life. The changing status of minority groups, including women, the Negro, and the immigrant. *Prereq*: His 211, 212.

### His 320 History of the South (3)
The social, economic, political, and intellectual forces that have made the American South. *Prereq*: His 211, 212.

### His 322 History of South Asia (3)
Primarily designed as a historical study of developments on the Indian sub-continent (India and Pakistan), the course also considers those areas of Southeast Asia (Burma and Thailand) which have been traditionally influenced by the course of Indian events. *Prereq*: His 101, 102 or 114.

### His 323 History of the Middle East (3)
Recent history of the major Middle Eastern countries. Geographical, cultural, economic, and religious factors which have influenced the history of the area. Special attention to Middle East problems which affect international relations. *Prereq*: His 101, 102 or 113.

### His 325 History of the Twentieth Century World (3)
A survey of the political, economic, social and intellectual developments in the world since 1919. Special attention given to the period between the World Wars; the failure of appeasement; and the eclipse of imperialism. *Prereq*: His 102 or 113.

### His 328 History of Modern Africa (3)
Survey of the historical background of sub-Sahara Africa and North Africa, with emphasis on European expansion in the continent and the influence of the expansion on twentieth century African political and social movements. *Prereq*: His 102 or 112 or 113.

### His 329 History of East Asia (3)
Survey of the historical and cultural background of China, Japan, and Korea. Emphasis is given to the significance of the modern period of East Asia and its impact on world affairs. *Prereq*: His 101, 102 or 114.

### His 331 History of England to 1688 (3)
The development of political, constitutional, economic, religious and social institutions in England from Roman times to the Glorious Rebellion. *Prereq*: His 101 or 111 or 112.

### His 332 History of England Since 1688 (3)
England as a world leader during the Commercial and Industrial Revolutions, the evolution of the democratic process, and the emergence of liberalism followed by the democratic welfare state. *Prereq*: His 102 or 112 or 113.

### His 333 History of Latin America to 1825 (3)
The development of Latin America during its colonial times and wars of independence. *Prereq*: His 102 or 112 or 211. *Fall.*

### His 334 History of Latin America Since 1825 (3)
The national period in the Latin American world. *Prereq*: His 102 or 113 or 212.

### His 339 History of the Afro-American (3)
Study of the Afro-American: origins, the period of slavery, the industrialization of the South, the migration to northern industrial urban centers, the civil rights movement, and the evolution of "Black Power." *Prereq*: His 211, 212.

### His 340 Modern Germany (3)
Germany in the nineteenth and twentieth centuries: Napoleonic era, rise of Prussia, nationalism and unification, imperialism and World War I, National Socialism, World War II, and Divided Germany. *Prereq*: His 102 or 113.

### His 350 Russian History to 1917 (3)
Survey of Russian history from ninth-century Kiev to the end of the Imperial period. Major emphasis is on the continuing religious, economic, social, and political tradition peculiar to the Russian State. *Prereq*: His 102 or 112.

### His 351 Soviet Russia (3)
Political, economic, social, and cultural aspects of Soviet society in the light of traditional Russian patterns and the goals of Communism. *Prereq*: His 102 or 113.

### His 360 Diplomatic History of Europe Since 1815 (3)
A study of the theories and practices of power politics in Europe; age of Metternich; revolutions of 1848; unifications of Germany and Italy; era of Bismarck, formation

of alliances and counter-alliances; diplomacy of colonial imperialism; first World War and Versailles peace settlements; emergence of totalitarian ideologies; World War II; and post-war Europe. *Prereq*: His 102 or 113.

**His 400 Senior Seminar in History (3)**
Research in history. Methodology, bibliography, and presentation, both written and oral. The research paper for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all history majors.

**His 410 Independent Studies in History (1 to 3)**
Special research projects, reports, readings in history. Open to seniors and Honors Program students only. *Prereq*: permission of chairman.

HUMANITIES See Department of English

ITALIAN See Department of Foreign Languages

LATIN See Department of Foreign Languages

MANAGEMENT See Department of Business and Economics

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## DEPARTMENT OF MATHEMATICS

*Chaired by Intradepartmental Committee*

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**Mat 101 Introduction to College Mathematics I (3)**
An introduction to the nature and spirit of mathematics and its cultural significance. Includes topics in number theory, set theory, and geometry.

**Mat 102 Introduction to College Mathematics II (3)**
Selected topics, chosen on the basis of student background and interest. *Prereq*: Mat 101.

**Mat 105 College Algebra and Trigonometry (3)**
A unified course in algebra and trigonometry. Absolute value, inequalities, functions, equations, and identities. *Prereq*: 3 years of high school mathematics.

**Mat 106 Foundations of Mathematics (3)**
Fundamental concepts. Set theory, structure of number systems, mathetical induction, permutations, combinations, probability, and theory of equations.

### Mat 107 Mathematics for the Management Sciences I (3)

Sets, relations, functions, and model building with business applications. Solution of linear equations in variables. Vectors, matrices, and introduction to linear programming including the simplex method.

### Mat 108 Mathematics for the Management Sciences II (3)

Conic sections, exponential and logarithmic functions, and geometric series with business applications. Limits, continuity, and elements of differential and integral calculus.

### Mat 121 Statistics (3)

Basic concepts of statistics. Frequency distributions, measures of central tendency and variability, correlation, probability and theoretical distributions, significance of differences, and hypothesis testing. For non-mathematics majors. *Prereq*: 2 years of high school mathematics.

### Mat 141 Calculus I (3)

An introduction to the calculus. Properties of real numbers, limits, continuity, differentiation, the integral of a continuous function, and exponential and logarithmic functions. *Prereq*: Mat 105 or 4 years of high school mathematics.

### Mat 142 Calculus II (3)

A continuation of Mat 141. Trigonometric functions, analytic geometry, and integration techniques and applications. *Prereq*: Mat 141.

### Mat 211 Linear Algebra (3)

An introduction to linear algebra. Matrices and determinants, systems of linear equations, vectors, and linear transformations. *Prereq or concurrent*: Mat 142.

### Mat 231 Concepts of Euclidean Geometry (3)

Geometric foundations from an advanced viewpoint. Absolute geometry, parallelism, metric functions, coordinates, constructions and construction criteria, and axiom sets.

### Mat 241 Calculus III (3)

A continuation of Mat 142. Applications, sequences and series, improper integrals, and certain supplementary topics. *Prereq*: Mat 142.

### Mat 242 Calculus IV (3)

An introduction to the calculus of several variables. Partial differentiation, multiple integration, implicit function theorems, and selected topics. *Prereq*: Mat 241.

### Mat 311 Algebra for Elementary Teachers (3)

Among topics studied are properties of real numbers, equations and inequalities, systems of equations, modular arithmetic, complex numbers, and algebraic structures. *Prereq*: Mat 101 or consent of instructor.

### Mat 321 Combinatorics and Graph Theory (3)

Introduction to set theory, graph theory, and combinatorial analysis. Includes set algebra, order relations, cardinality, directed graphs, elementary combinatorics, principles of inclusion and exclusion, recurrence relations, zero-one matrices, partitions, and Polya's Theorem. *Prereq*: CSc 101, Mat 211, 242.

### Mat 331 Geometry for Elementary Teachers (3)

Modern informal approach to two- and three-dimensional geometric figures, measurement, similarity, congruence, coordinate geometry, and the postulational method. Prereq: Mat 101 or consent of instructor.

### Mat 343 Differential Equations (3)

The theory, solution, and application of ordinary differential equations. First order equations and linear nth order equations. Applications are taken from physics, chemistry, economics, and operations research. *Prereq or concurrent*: Mat 242.

### Mat 350 Teaching Mathematics in Secondary Schools (3)

Modern techniques; aims of mathematics instruction, motivation, methods of instruction, and evaluation in mathematics. The new mathematics and modern courses of study. Opportunities are provided for students to plan and present lessons in mathematics and to observe mathematics classes in secondary schools. *Prereq*: Mat 241.

### Mat 351 Teaching Mathematics in Elementary Schools (3)

Concepts, learning aids, syllabi, texts, and methods in elementary school mathematics. *Prereq*: Mat 101.

### Mat 401 History of Mathematics (3)

Development of mathematics from the Babylonian era to the eighteenth century. Some modern topics are also included. *Prereq*: Mat 241.

### Mat 405 Special Topics in Mathematics (3)

Content variable; announced at the time of offering.

### Mat 411 Modern Algebra I (3)

Abstract algebra. The axiomatic approach to algebraic systems; relations, mappings, groups, rings, integral domains, and fields. *Prereq*: Mat 241.

### Mat 412 Modern Algebra II (3)

A continuation of Mat 411. Cosets, normal subgroups, subrings, and polynomials. *Prereq*: Mat 411.

### Mat 414 Theory of Numbers (3)

Properties of the integers; primes, factorization, congruences, and quadratic reciprocity. *Prereq*: Mat 242.

### Mat 421 Mathematical Statistics I (3)

Primarily a course in probability theory. Representative topics are discrete and continuous random variables, probability distributions, moment generating functions, and an introduction to statistical sampling theory. *Prereq*: Mat 242.

### Mat 422 Mathematical Statistics II (3)

A continuation of Mat 421. Statistical sampling theory, point and interval estimation, tests of hypotheses, regression, and correlation. *Prereq*: Mat 421.

### Mat 425 Numerical Analysis (3)

Numerical methods for the approximate solution of applied problems. Interpolation theory, curve fitting, approximate integration, and the numerical solution of differential equations. *Prereq*: CSc 101, Mat 211, 242.

### Mat 427 Introduction to Optimization Techniques (3)

The nature of optimization problems: deterministic and stochastic, discrete and continuous. Computer methods of solution: systematic and random search, linear programming, quadratic programming, dynamic programming, and others. *Prereq*: Mat 425.

### Mat 431 Topics in Geometry (3)

Introducton to various branches of geometry. Includes affine, projective, and finite geometries and geometry from a linear algebraic viewpoint. *Prereq*: Mat 211.

### Mat 432 Topology (3)

Elements of point set topology. Separation axioms, connectedness, compactness, and metrizability. *Prereq*: Mat 242.

### Mat 433 Differential Geometry (3)

Classical differential geometry from a modern viewpoint. Included for study are curves and surfaces, shape operators, and an introduction to Riemannian geometry. *Prereq*: Mat 211, 242.

### Mat 441 Advanced Calculus I (3)
Foundations of real analysis. Rigorous treatment of limits, sequences, continuity, the theory of integration, and infinite series. *Prereq*: Mat 242.

### Mat 442 Advanced Calculus II (3)
A continuation of Mat 441. Infinite series of functions, functions of several variables, partial differentiation, implicit function theorems, transformations, multiple integration, and other topics. *Prereq*: Mat 441.

### Mat 445 Complex Variables (3)
Introduction to functions of a complex variable. Analytic functions, mappings, differentiation and integration, power series, and conformal mappings. *Prereq*: Mat 242.

### Mat 490 Seminar in Mathematics (3)
Topics in mathematics selected for their significance and student-instructor interest. Independent study and student reports, oral and written. *Prereq*: Senior Standing and consent of department chairman.

## COMPUTER SCIENCE

### CSc 101 Introduction to Computers (3)
Prepares students to use the computer as a tool. Examines the scope of computer applications as well as current limitations. Skill is acquired in the use of a general-purpose programming language..

### CSc 102 Introduction to Computers—Business (3)
Students apply the computer to business problems and processes. A course designed primarily for majors in business administration.

### CSc 201 Computer Organization and Programming (3)
Computer input-output hardware, mass storage units, and internal components. A concentrated study of machine and symbolic language is included. *Prereq*: CSc 101 or 102.

### CSc 202 Algorithmic Languages and Compilers (3)
Formal description of algorithmic languages and techniques used in their compilation. Syntax, semantics, ambiguities, procedures, replication, iteration, and recursion in these languages. *Prereq*: CSc 201.

### CSc 305 Business Data Processing (3)
EDP systems design; documentation techniques, packaged programs for linear programming, critical data analysis, business games, and simulation. Provides student with background needed to design, program, document, and implement an EDP system. *Prereq*: CSc 102.

### CSc 311 Logic and Switching Theory (3)

Symbolic logic and Boolean algebra for description and analysis of switching circuits; simplification of switching circuits; error detecting and correcting codes; storage elements defined logically; basic sequential circuits, and digital system design principles. *Prereq*: CSc 202, Phy 101.

### CSc 321 Information Processing (3)

Study of information representations and relationships between the form of representation and processing techniques. Transformation between storage media. Structure of semi-formal languages and models for representation. *Prereq*: CSc 202.

### CSc 331 Computational Linguistics (3)

Study of certain languages and grammar which can be specified in precise mathematical terms. Various types of formal languages are defined and their properties derived. *Prereq*: CSc 202 or permission of the instructor.

### CSc 350 Computers in Education (3)

Analysis of the use of computers in educational systems. The course supplies the technical knowledge and skills required for the successful use of the computer as a supportive tool of education in elementary and secondary school classes. *Prereq*: CSc 101 or 102.

### CSc 461 Monte Carlo Methods and Simulation (3)

Computer simulation utilizing logical, numerical, and Monte Carlo modeling to represent systems. Use of special languages to simulate actual systems. *Prereq*: Mat 421, CSc 101.

## SCHOOL OF MUSIC

Lloyd C. Mitchell, *Dean*

Alexander Antonowich, *Assistant Dean*

Charles A. Sprenkle, *Associate Dean for Graduate Studies and Research*

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## DEPARTMENT OF THEORY AND COMPOSITION

WRIGHT, *Chairman;* BEATTY, GANGEMI, MCCLELLAN, MUNGER, SULLIVAN, WILKINSON, and Staff.

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### Mus 111 Foundations of Music (3)

The fundamentals of music theory. An integrated course developing basic skills in ear training, sight singing, keyboard harmony, and the analysis of form in music. I, IV, V, VII triads in root position and inversions.

### Mus 112 Theory of Music I (3)

Continuation of Mus 111 less sight singing. Harmonization of melodies, using diatonic triads. Binary and ternary forms and other groupings of part forms. Melody writing. *Prereq*: Mus 111.

### Mus 113 Sight Singing I (3)

A continuation of music reading skills developed in Mus 111. *Prereq*: Mus 111.

### Mus 211 Theory of Music II (3)

Continued development of basic skills. Non-harmonic tones, diatonic seventh chords, modulation to closely related keys. Sonata form, the rondo and invention. *Prereq*: Mus 112.

### Mus 212 Theory of Music III (3)

Further diatonic seventh chords, altered chords. Creative use of the materials of music. Variation form and fugue. *Prereq*: Mus 211.

### Mus 213 Sight Singing II (2)

Material of advanced difficulty involving chromatic alterations, remote modulations, and intricate rhythms. *Prereq*: Mus 211.

### Mus 311 Theory of Music IV (3)
Augmented triads, Neapolitan sixth chord, augmented sixth chords, chords of the ninth, eleventh, and thirteenth. Foreign modulation. Concerto forms and unique forms. *Prereq*: Mus 212.

### Mus 312 Counterpoint I (2)
The contrapuntal techniques of tonal music. Chorale prelude and invention. *Prereq*: Mus 212.

### Mus 313 Counterpoint II (2)
Advanced contrapuntal forms including canon and fugue. *Prereq*: Mus 312.

### Mus 314 Musical Form (2)
The standard forms of tonal music based on the treatises of Goetschius and Salzer. *Prereq*: Mus 212.

### Mus 315 Orchestration (2)
The orchestra; use of instruments individually and in combination. *Prereq*: Mus 212.

### Mus 318 Techniques of Twentieth Century Composition (2)
A study of the technical aspects of contemporary music. Writing "in the style of," etc. *Prereq*: Mus 212.

### Mus 412 Composition I (2)
Creative writing in the forms, styles, and media best suited to the capabilities and needs of the student. *Prereq*: Mus 212.

### Mus 413 Composition II (2)
Further application of Mus 412, stressing contemporary techniques. *Prereq*: Mus 412.

### Mus 414 Musical Acoustics (3)
The study of sound: its production, transmission, and reception. Musical instruments, the acoustics of rooms, and the physical basis of scales.

## DEPARTMENT OF MUSIC HISTORY AND LITERATURE

THOMSON, *Chairman;* COHEN, PARRIS, SCHICK, WELLS, WILLIAMS, and Staff.

### Mus 121 Fine Arts [Music] (3)

An introductory course in the history and appreciation of music from the Middle Ages through the Contemporary Period. Not open to music majors or elementary education students with an Area of Interest in music. Usually taken to meet the music requirement in General Requirements. Students may substitute Mus 122 or 123; those who have sufficient musical background may, under advisement, substitute Mus 221 or 222.

### Mus 122 Music History I (3)

The history and appreciation of music from the earliest times through the Baroque Period. Musical forms, aesthetic concepts, and practices. Analysis and listening experience. A course intended primarily for students in arts and letters. Students with sufficient musical background may, under advisement, substitute Mus 221.

### Mus 123 Music History II (3)

The history and appreciation of music from the Classical through the Contemporary Period. Continuation of Mus 122. Students with sufficient musical background may, under advisement, substitute Mus 222.

### Mus 221 Music in Western Civilization I (3)

A history of music from earliest known times through the Baroque Period—to 1750. Analysis of styles, forms, aesthetic concepts, and practices.

### Mus 222 Music in Western Civilization II (3)

A history of music from the Classical through Contemporary Period. Analysis of styles, forms, aesthetic concepts, and practices.

### Mus 224 Keyboard Literature I (2)

A survey of literature for keyboard instruments from the Baroque Period through the late Classical Period. The various styles in solo and ensemble literature are illustrated by recordings and performance by keyboard majors.

### Mus 225 Keyboard Literature II (2)

A continuation of Mus 224. Performance by keyboard majors and recordings. Literature from the Romantic through the Contemporary Period is studied.

### Mus 226 Art Song I (2)

Consideration of the origins of the art song, the Italian art song, and the German lied.

### Mus 227 Art Song II (2)

Art songs of America, France, England, Scandinavia, and Russia are studied.

### Mus 320 Contemporary Styles (2)

Trends in modern music from about 1900 to the present. Analysis and listening experience. Designed for non-music majors. *Prereq*: Mus 121.

### Mus 322 American Music (2)

A cursory examination of music from the Puritan Era to 1880. Analysis of art music from MacDowell to the contemporary scene. Aimed toward developing keener aural perception of the creative process, both for the musician and the layman.

### Mus 323 Aesthetics and Music Criticism (2)

The nature of aesthetic experience and various problems in the philosophy of art. Principles of criticism related to music and its performance.

### Mus 324 String Literature I (2)

A survey of literature for string instruments from the pre-Baroque through the Classical Period. Study of style, form, and analysis; performance. Students, performing on their major instruments, and pertinent recordings provide illustrative literature.

### Mus 325 String Literature II (2)

A continuation of Mus 324, pursuing the same format and considering literature of the Romantic and Contemporary Periods.

### Mus 326 Woodwind Literature I (2)

A survey of literature for flute, oboe, clarinet, and bassoon from the Baroque and Classical Periods. Recordings and performance by woodwind majors.

### Mus 327 Woodwind Literature II (2)

A continuation of Mus 326. The Romantic and Contemporary Periods are studied.

### Mus 328 Brass Literature I (2)

The nature and development of brass instruments, observed in the solo, ensemble, and orchestral literature of the sixteenth, seventeenth, and eighteenth centuries.

### Mus 329 Brass Literature II (2)
A continuation of Mus 328, beginning with the introduction of pistons and valves in the nineteenth century and proceeding through the twentieth century to the present.

### Mus 421 Literature of the Musical Theater (2)
The literature of the musical theater from Singspiel to Broadway Musical. Changes in style are observed and analyzed.

### Mus 422 Musico-Dramatic Production I (2)
A study of the arts and crafts required in a musical production: coaching, set designing and construction, stage movement, choreography, and costuming.

### Mus 423 Musico-Dramatic Production II (2)
A continuation of Mus 422 with emphasis on student direction.

### Mus 424 Development of the Opera (2)
A basic course in the origin and development of the opera and its dissemination throughout the Western World.

### Mus 425 Literature of Orchestral Music (2)
A study of representative orchestral works: symphonies, concerti, suites, overtures, and others, from the Baroque Period to the present. Appreciation and analysis.

### Mus 426 Choral Repertoire I (2)
The development and performance style of the choral repertoire of the sixteenth, seventeenth, and eighteenth centuries.

### Mus 427 Choral Repertoire II (2)
The development and performance style of the choral repertoire of the nineteenth and twentieth centuries.

### Mus 428 Chamber Music Literature (2)
Analysis of style and form of chamber music repertoire from the Baroque through Modern Period. Emphasis on appreciation as well as structure.

## DEPARTMENT OF MUSIC EDUCATION

CAREY, *Chairman;* BACHMAN, COLLINS, MERRELL, MILLER, NORTHEIMER, PFLIEGER, and Staff.

### Mus 030 Fundamentals of Music (no credit)

For elementary education students who do not meet minimum requirements on a Music Fundamentals test. For these students the course is a prerequisite for Mus 231 and Mus 232. Intervals, scales, key signatures, and other fundamentals of musical notation are stressed.

### Mus 231 Music for the Primary Grades (3)

Designed to equip the graduate to participate, under supervision, in the music program in the primary grades. Emphasis on basic keyboard skills, voice production, elements of music, and teaching procedures and materials.

### Mus 232 Music for the Intermediate Grades (3)

Designed to equip graduates to participate, under supervision, in the music program in the intermediate grades. Emphasis on basic keyboard skills, voice production, elements of music, and teaching procedures and materials.

### Mus 331 Elementary Music Methods (3)

Human growth and musical development of children in the elementary grades. Emphasis upon the selection and analysis of materials, effective teaching procedures, and evaluative techniques.

### Mus 332 Secondary Music Methods (2)

The choral and general music program in the secondary school. Emphasis upon conceptual learning, the planning of structured learning experiences, and the selection of effective materials.

### Mus 333 Instrumental Methods (2)

Fundamentals underlying the development of instrumental programs in the public schools. Emphasis upon program organization and administration, teaching procedures, and materials.

Note: *Mus 331, Mus 332, and Mus 333 are scheduled concurrently, normally in the junor year, in order to permit regular and ample opportunity for observation in area public schools.*

### Mus 334 Teaching Music Appreciation in the Elementary Grades (3)

Designed to enrich the music program throughout the grades, with emphasis on listening experiences. Effective materials and procedures as well as unit organization.

**Mus 335 Choral Materials and Practices (2)**
Designed to acquaint the student with the vast amount of choral music suitable for school use. Program building and rehearsal techniques are demonstrated.

**Mus 336 Piano Methods [Class] (2)**
For piano teachers and supervisors in the organization and teaching of piano classes in the public schools. Suitable teaching materials are examined and discussed. Demonstrations and student teaching.

**Mus 337 Instrumental Teachniques and Materials (2)**
For juniors and seniors who desire to specialize in instrumental music. Considers rehearsal procedures, effective materials, minor repairs of instruments, competitions and festivals, and marching band procedures. *Prereq:* Mus 333.

**Mus 431 Student Teaching, Practicum, and Direction of Student Activities (12)**
Observation and participation in teaching vocal and instrumental music in situations ranging from the primary grades through senior high school. Undertaken in conjunction with qualified cooperating teachers. Professional conferences and visitations are an integral part of the experience.

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## DEPARTMENT OF KEYBOARD MUSIC

WHITTEN, *Chairman;* BEDFORD, CARL, FARESE, GOTTLIEB, HALES, HAYS, PENNINGTON, PETHES, VELETA, R., VOOIS, WEISS, and Staff.

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**Pia 101-402 Piano (1)**
Private study in piano for non-majors. Keyboard harmony included.

**Pia 111-412 Piano: Advanced (1)**
Private study for piano majors. Keyboard harmony included.

**Pia 121-422 Piano: Advanced Standing (1)**
Private study for piano majors who have attained advanced standing by examination.

**Pia 131-432 Piano: B.A. in Applied Music (1 or 2)**
Private study for piano majors in the B.A. program with a concentration in applied music.

### Pia 141-442 Piano: B.Mus. (2)

Private study for piano majors in the B.Mus. program.

### Pia 400 Piano Class [Elementary Teachers] (3)

Piano accompaniments for classroom music activities, and teaching of practical classroom materials.

### Org 001 Organ Class ($\frac{1}{2}$)

Designed to familiarize students with some of the problems of service playing. Available to piano majors or by permission of instructor.

### Org 101-202 Organ (1)

Private study in organ for non-majors.

### Org 111-412 Organ: Advanced (1)

Private instruction for majors in organ. *Prereq*: sufficient piano background to gain approval by the faculty.

### Org 121-422 Organ: Advanced Standing (1)

Private instruction for majors in organ who have attained advanced standing by examination.

### Org 131-432 Organ: B.A. in Applied Music (1 or 2)

Private study for organ majors in the B.A. program with a concentration in applied music.

### Org 141-442 Organ B.Mus. (2)

Private study for organ majors in the B.Mus. program.

### Mas 311-314 Master Class [Keyboard] (1)

For keyboard majors. Experience in performing memorized literature. Class members also play two-piano compositions and ensemble music for piano and other instruments. Keyboard trios, quartets, and quintets are analyzed and performed.

## DEPARTMENT OF VOCAL AND CHORAL MUSIC

SWEET, *Chairman;* ALT, CHEESMAN, CONAWAY, FRENZ, FRIDAY, KREUGER, MARKOW, SHEPPARD, VANDEVER, WAGNER, and Staff.

**Voi 101-402 Voice (1)**
Private study in voice for non-majors.

**Voi 111-412 Voice: Advanced (1)**
Private study for voice majors, including study and application of the physiological and psychological principles of voice production.

**Voi 121-422 Voice: Advanced Standing (1)**
Private study for voice majors who have attained advanced standing by examination. Performance is a requirement on this level.

**Voi 131-432 Voice: B.A. in Applied Music (1 or 2)**
Private study for voice majors in the B.A. program with a concentration in applied music.

**Voi 141-442 Voice: B.Mus. (2)**
Private study for voice majors in the B.Mus. program.

**MxC 111-412 Mixed Chorus ($\frac{1}{2}$)**
Designed to acquaint the student with choral literature for Mixed Chorus, Women's Chorus, and Men's Chorus. Program performance included.

**MCh 111-112 Madrigal Choir ($\frac{1}{2}$)**
An elective course in chamber-type choral music. May not be used to satisfy required choral credits. Membership by audition.

**OpC 111-112 Opera Chorus ($\frac{1}{2}$)**
An elective course devoted to the training of a choral group which participates in opera or operetta productions. May not be used to satisfy choral credits. Membership by audition.

**Cho 311-412 Choir ($\frac{1}{2}$)**
Designed to give the student a wide association with the choral literature for mixed chorus. Music of high-school level as well as more difficult literature.

**CCh 121-422 Concert Choir (½)**
Devoted to acquiring a fine technique in choral singing through the preparation of programs for performance. Membership by audition.

**WGC 111-412 Women's Glee Club (½)**
An opportunity for non-music students to learn the choral literature for Women's Chorus. Membership by audition.

**CCo 211 Choral Conducting (2)**
A practical application of conducting and vocal techniques in choral direction through practice in conducting a choral group.

**CCo 212 Advanced Choral Conducting (2)**
Continued development of conducting techniques with stress on conducting of polyphonic choral music and on the musical styles of the various choral periods. *Prereq*: CCo 211.

**Mas 321-324 Master Class [Voice] (1)**
Standard repertoire for various types of voices is performed and discussed.

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## DEPARTMENT OF INSTRUMENTAL MUSIC

CARSON, *Chairman;* BARROW, BOERLIN, BREUNINGER, GOEBEL, GUIDETTI, JOHNS, KLEIN, LAUDERMILCH, ROPER, SMITH, SOUTHALL, VELETA, M., and Staff.

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**Vln 001-002 Violin (1)**
Class instruction in the fundamentals of playing the violin. Bowing, left-hand technique, and introduction of positions.

**Vla 001, Vcl 001, Bas 001 Viola, Cello, Bass (½)**
Class instruction in the fundamentals of playing the viola, cello, or string bass.

**Vln 101-402, Vla 101-402**
**Vcl 101-402, Bas 101-402 Strings (1)**
Private instruction in violin, viola, cello, or string bass for non-majors.

**Vln 111-412, Vla 111-412**
**Vcl 111-412, Bas 111-412 Strings: Advanced (1)**
Private instruction for majors in violin, viola, cello, or string bass. Scales, arpeggios, etudes, and solos, representing various musical styles.

**Vln 121-422, Vla 121-422**
**Vcl 121-422, Bas 121-422 Strings: Advanced Standing (1)**
Private study for majors in the performance of sonatas, concerti, and solos for those who have attained advanced standing by examination.

**Vln 131-432, Vla 131-432**
**Vcl 131-432, Bas 131-432 Strings: B.A. in Applied Music (1 or 2)**
Private study for majors in the B.A. program with a concentration in applied music.

**Vln 141-442, Vla 141-442**
**Vcl 141-442, Bas 141-442 Strings: B.Mus. (2)**
Private study for majors in the B.Mus. program.

**Clt 001-002 Clarinet ($\frac{1}{2}$)**
Class instruction in the fundamentals of playing the clarinet. Tone production, embouchure, fingering, and technique.

**Flu 001, Obo 001, EnH 001, Bsn 001 Flute, Oboe, English Horn, Bassoon ($\frac{1}{2}$)**
Class instruction in the fundamentals of playing the flute, oboe, English horn, or bassoon.

**Flu 101-402, Obo 101-402**
**EnH 101-402, Clt 101-402, Bsn 101-402 Woodwinds (1)**
Private instruction in flute, oboe, English horn, clarinet, or bassoon for non-majors.

**Flu 111-412, Obo 111-412**
**EnH 111-412, Clt 111-412, Bsn 111-412 Woodwinds: Advanced (1)**
Private instruction for majors in flute, oboe, English horn, clarinet, or bassoon.

**Flu 121-422, Obo 121-422**
**EnH 121-422, Clt 121-422, Bsn 121-422 Woodwinds: Advanced Standing (1)**
Private instruction for majors in the performance of sonatas, concerti, and solos for those who have attained advanced standing by examination.

**Flu 131-432, Obo 131-432**
**EnH 131-432, Clt 131-432, Bsn 131-432 Woodwinds: B.A. in Applied Music (1 or 2)**
Private study for majors in the B.A. program with a concentration in applied music.

Flu 141-442, Obo 141-442
EnH 141-442, Clt 141-442, Bsn 141-442 Woodwinds: B.Mus (2)
Private study for majors in the B.Mus. program.

Tpt 001-002 Trumpet ($\frac{1}{2}$)
Class instruction in the fundamentals of playing the trumpet. Tone production, embouchure, position, and technique.

FrH 001, Trb 001
Bar 001, Tba 001 French Horn, Trombone, Baritone, Tuba ($\frac{1}{2}$)
Class instruction in the fundamentals of playing the French horn, trombone, baritone, or tuba.

FrH 101-402, Tpt 101-402
Trb 101-402, Bar 101-402, Tba 101-402 Brasses (1)
Private instruction in French horn, trumpet, trombone, baritone, or tuba for non-majors.

FrH 111-412, Tpt 111-412
Trb 111-412, Bar 111-412, Tba 111-412 Brasses: Advanced (1)
Private instruction for majors in French horn, trumpet, trombone, baritone, or tuba.

FrH 121-422, Tpt 121-422
Trb 121-422, Bar 121-422, Tba 121-422 Brasses: Advanced Standing (1)
Private instruction for majors in the performance of sonatas, concerti, and solos for those who have attained advanced standing by examination.

FrH 131-432, Tpt 131-432
Trb 131-432, Bar 131-432, Tba 131-432 Brasses: B.A. in Applied Music (1 or 2)
Private study for majors in the B.A. program with a concentration in applied music.

FrH 141-442, Tpt 141-442
Trb 141-442, Bar 141-442, Tba 141-442 Brasses: B.Mus. (2)
Private study for majors in the B.Mus. program.

Hrp 001 Harp ($\frac{1}{2}$)
Class instruction in harp for non-majors.

Hrp 101-402 Harp (1)
Private instruction in harp for non-majors.

**Hrp 111-412 Harp: Advanced (1)**
Private instruction for majors in harp.

**Hrp 121-422 Harp: Advanced Standing (1)**
Private instruction for majors in harp who have attained advanced standing by examination.

**Hrp 131-432 Harp: B.A. in Applied Music (1 or 2)**
Private study for majors in the B.A. program with a concentration in applied music.

**Hrp 141-442 Harp: B.Mus. (2)**
Private study for majors in the B.Mus. program.

**Per 001 Percussion ($\frac{1}{2}$)**
Class instruction in the fundamentals of playing percussion instruments. Snare drum rolls, bass drum and cymbal techniques, and instruction in the use of other percussion instruments.

**Per 101-402 Percussion (1)**
Private instruction in percussion instruments for non-majors.

**Per 111-412 Percussion: Advanced (1)**
Private instruction for majors in percussion instruments.

**Per 121-422 Percussion: Advanced Standing (1)**
Private instruction for majors in percussion instruments who have attained advanced standing by examination.

**Per 131-432 Percussion: B.A. in Applied Music (1 or 2)**
Private study for majors in the B.A. program with a concentration in applied music.

**Per 141-442 Percussion: B.Mus. (2)**
Private study for majors in the B.Mus. program.

**SEn 111-412 String Ensemble ($\frac{1}{2}$)**
Principles of ensemble playing through the performance of various types of chamber music.

**WEn 111-412 Woodwind Ensemble ($\frac{1}{2}$)**
Principles of ensemble playing through the performance of various types of chamber music.

**BEn 111-412 Brass Ensemble (½)**
Principles of ensemble playing through the performance of various types of chamber music.

**EIO 111-412 Elementary Orchestra (½)**
Music for the beginning orchestra through performance. Emphasis on beginners' problems, organization, and techniques of string performance.

**SyO 111-412 Symphony Orchestra (½)**
Emphasis on performance of a wide variety of orchestral literature for concerts, accompanying student soloists, opera, and oratorio.

**Sin 111-412 Sinfonietta (½)**
A highly selective small orchestra which studies and performs music primarily from the Baroque, Classical, and Contemporary Periods.

**EIB 111-412 Elementary Band (½)**
Music for the beginning band through performance. Emphasis on beginners' problems, organization, and techniques of wind and percussion playing.

**SeB 111-412 Second Concert Band (½)**
Performance of the band literature suitable for junior high and senior high levels. Program building, balance, and rehearsal techniques are stressed.

**CMB 111-412 Concert and Marching Band (½)**
The Concert Band emphasizes performance of a wide variety of band literature: standard repertoire, recently published compositions, and selections from festival lists. The Marching Band performs precision and theme drills at football games and plays for community and college functions.

**Win 111-412 Wind Ensemble (½)**
A band of 50 or 60 members, selected by audition, which performs difficult music with emphasis on contemporary works.

**ICo 311 Instrumental Conducting (2)**
Development of conducting skills and techniques, score reading, and terminology. Works from the late eighteenth century are studied and conducted. *Prereq*: CCo 211.

**ICo 312 Advanced Instrumental Conducting (2)**
Continued development of conducting skills and score reading of more advanced music literature. Works from the Romantic and Contemporary Periods are studied and conducted. *Prereq*: ICo 311.

### Mas 331-334 Master Class [Strings] (1)

Standard repertoire for combinations of string instruments, including trios, quartets, quintets, and other groups involving piano, organ, and other instruments.

### Mas 341-344 Master Class [Woodwinds] (1)

Repertoire from the Baroque Period to the present, performed by ensembles of woodwind instruments. Solos are performed and discussed.

### Mas 351-354 Master Class [Brasses] (1)

Repertoire for brass solo, homogeneous ensemble, and mixed ensemble is performed and discussed.

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## DEPARTMENT OF NURSING

Doris R. Schoel, *Chairman*

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### PSN 300 Public School Nursing (2)

Introductory principles of school nursing as a related specialty of public health nursing.

### PSN 302 Public Health Nursing I (3)

A survey of public health work in Europe, England, and America. Social changes in public health nursing, medicine, population trends, sanitation, housing engineering and other contemporary public health problems.

### PSN 303 Public Health Nursing II (3)

A survey of the fundamental principles, past and present. Patterns, definitions, and processes of public health nursing practice as it relates to generalized public health nursing and the school nurse. *Prereq*: PSN 302.

### PSN 304 Foundations of Nutrition (3)

Principles of normal nutrition for the family, schools, and other community agencies. The nurse's role as a nutritional resource person in the family, school, and community.

### PSN 306 Prevention and Control of Communicable Diseases (3)

An epidemiological approach to the prevention and control of communicable diseases. Communicable disease problems of our society.

### PSN 320 Problems in School Nursing (3)

Special physical, emotional, and social health problems of children which affect the school, home, and community. Principles, methods, and materials in health education which help the nurse to function more effectively as a health teacher with families and as a health resource person on the school health team.

### PSN 370 Mental Hygiene (3)

The psychology of mental hygiene including the dynamics of personality adjustment as they relate to the normal individual. Special mental health problems of the child, school, family, and community.

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## DEPARTMENT OF PHILOSOPHY

George S. Claghorn, *Chairman*

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### Phi 280 Introduction to Philosophy (3)

An introduction to the chief problems and methods of philosophic thought, with a survey of some typical solutions. The place and influence of philosophy in the life of man today.

### Phi 360 (Also Lan 360) Philosophy of Language (3)

Questions of meaning in communication. Special emphasis on contemporary discussions of theories of natural language.

### Phi 374 Aesthetics (3)

Interpretation of beauty and art. Effects of motivation; problems in media and goals. A background of meaning for the evaluation of specific works of painting, sculpture, music, and architecture.

### Phi 380 Ethics (3)

Great ethical systems of history, and their application to personal and social life. The right and the good, the nature of values, and critical ethical dilemmas.

### Phi 461 Indian Thought (3)

The religious and philosophical heritage of India, from Vedic times to the present. Examination of major classics, such as Rig Veda, Upanishads, Bhagavad-Gita, and Yoga-sutras, with some attention also given to recent writers such as Tagore, Gandhi, and Radhakrishnan.

### Phi 462 Chinese and Japanese Thought (3)
An examination of Far Eastern religion and philosophy, emphasizing the Oriental outlook on man, nature, and society. Classics such as Confucian Analects, Tao teh Ching, and I Ching are read and discussed; attention is given to Zen and other schools of Mahayana Buddhism.

### Phi 463 History of Hebrew Thought (3)
Hebrew concepts of God, man, and the universe. Biblical origins; Philo; the Rabbinic writings; medieval traditions and interpretations; Maimonides, Spinoza, Mendelssohn, and Buber; contemporary problems.

### Phi 464 History of Islamic Thought (3)
The chief principles of Mohammedanism, seen in their historical development. Major thinkers, reaction and reform, impact on medieval and modern thought in the West; the contemporary outlook and influence of Islam.

### Phi 465 History of Christian Thought (3)
Christian views of God, man, society, culture, and their inter-relations. Classic controversies, such as faith and reason, culture and faith, determinism and freedom.

### Phi 470 History of Philosophy, Ancient (3)
A survey of the major figures of ancient philosophy, from the pre-Socratics through Plato, Aristotle, the Epicureans, and Stoics, to the Skeptics and Neo-Platonists.

### Phi 471 History of Philosophy, Medieval (3)
The history of philosophy from the early Church fathers to the late Middle Ages. St. Augustine, St. Thomas, mysticism, Jewish and Mohammedan influences, humanism, and the rise of science.

### Phi 472 History of Philosophy, Modern (3)
From Descartes to Hegel. The social, political, and scientific impact of the philosophers.

### Phi 475 Nineteenth Century Philosophy (3)
Hegel and German Idealism; decisive influences on European and American literature and thought. Survey of the chief themes of Schopenhauer, Comte, Mill, Spencer, Marx, Kierkegaard, Darwin, and Nietzsche.

### Phi 483 Philosophy of History (3)
Classic philosophies of history, including those of Augustine, Vico, Hegel, Marx, Spengler, Toynbee, and Collingwood. Definitions of civilization, norms of progress and decadence, determinism and indeterminism, causality, and pattern.

### Phi 484 American Philosophy (3)

Leaders in science, literature, religion, and government who have shaped American thought. Philosophers of Puritanism, the Revolution, Transcendentalism, and native schools of Realism, Idealism, and Pragmatism.

### Phi 485 Contemporary Philosophy (3)

Philosophic trends since 1850, including the process philosophy, Pragmatism, Positivism, Existentialism, and the Analytic School.

### Phi 486 Philosophy of Religion (3)

Religion and the religious experience as viewed by major Western thinkers. The existence of God, immortality, religious knowledge, evil, miracles, and science and religion.

### Phi 487 Philosophy of Science (3)

The nature of scientific method and scientific theory, with reference to presuppositions, inference, explanation, prediction, applications, and verification.

### Phi 488 Theory of Knowledge (3)

Theories of truth, perception, and understanding. Classic and contemporary discussions on the nature of the self, in relation to the known world.

### Phi 490 Logic (3)

The art of critical thought and of sound reasoning. Formal and classical logic; propaganda; introduction to the scientific method.

### Phi 491 Advanced Logic (3)

Symbolic logic and its relation to contemporary philosophy and scientific thought. Two-valued sentential and qualificational logic. Many-valued logics, modal logic, and natural deduction. *Prereq*: Phi 490.

### Phi 498 Seminar in Ancient Philosophy (3)

Directed study of a topic in ancient philosophy as it relates to vital questions of our time. Topic for 1970-71: *The Doctrine of Man in Ancient Thought.* Required of all philosophy majors. *Prereq*: 6 hours of philosophy or permission of instructor.

### Phi 499 Seminar in Modern Philosophy (3)

An intensive study of some major theme of modern philosophy. Topic for 1970-71: *Current Issues in Semantic Theory.* Required of philosophy majors. *Prereq*: 6 hours of philosophy or permission of instructor.

## DEPARTMENT OF PHYSICS

Russell K. Rickert, *Chairman*

### Phy 100 Introduction to Physics (2)

Introduction to contemporary physics. Readings and discussion on the development of physical concepts, limitations of physical laws, and influences of physical thought upon other aspects of man's culture.

### Phy 101 Physics I (4)

An introductory course. Mechanics of solids and fluids; heat; temperature; thermodynamics; the kinetic theory; and wave motion. Two hours lecture, two hours recitation, two hours lab. *Prereq*: Mat 141.

### Phy 102 Physics II (4)

An extension of Phy 101. Electricity and magnetism; geometrical and physical optics; and modern physics. Two hours lecture, two hours recitation, two hours lab. *Prereq*: Phy 101, Mat 142.

### Phy 103 General Physics I (4)

An introductory course. Mechanics of solids and fluids; wave motion; heat and temperature; thermodynamics; and kinetic theory. Uses algebra and trigonometry but no calculus.

### Phy 104 General Physics II (4)

An extension of Phy 103. Electricity and magnetism; geometrical and physical optics; and modern physics. *Prereq*: Phy 103.

### Phy 110 Acoustics for Speech and Hearing (3)

Energy of waves, waveforms, resonance, interference, and superposition. Basic amplifier circuits and types of distortion. Includes concepts from mechanics needed to support these topics.

### Phy 201 Intermediate Physics (3)

Topics from classical mechanics and electricity and magnetism that reflect the mathematical similarities between the two fields. A vector-analytic approach is used. Topics include Newton's laws, gravitation, electrostatics, damped harmonic motion, LRC circuits, and Gauss' law. *Prereq*: Phy 102 or 104, Mat 241.

### Phy 212 Mechanics (3)

An intermediate course. Kinematics and dynamics of particles and rigid bodies; work and energy; the conservation principles; harmonic oscillations; and properties

of solids and liquids. Vector analysis is introduced as an integral part of the course. Three hours lecture. *Prereq*: Phy 102, Mat 241.

### Phy 233 Introduction to Modern Physics (3)
An intermediate course. Special relativity, quantum effects, atomic structure and spectra, nuclear structure and reactions, molecular and solid state physics. Three hours lecture. *Prereq*: Phy 102, Mat 142.

### Phy 251 Intermediate Physics Laboratory I (1)
A course to familiarize students with laboratory equipment and methods. Normally accompanies Phy 233.

### Phy 252 Intermediate Physics Laboratory II (1)
A continuation of Phy 251. Normally accompanies Phy 212.

### Phy 413 Analytical Dynamics (3)
An advanced undergraduate course. Wave propagation; Lagrange's equations and Hamilton's principle, rigid body motion; and special relativity. *Prereq*: Phy 212, Mat 343.

### Phy 414 Heat and Thermodynamics (3)
Equations of state; first and second laws of thermodynamics; ideal and real gases; entropy; and statistical mechanics. *Prereq*: Phy 102, Mat 343.

### Phy 415 Mathematical Physics I (3)
Selected topics in mathematics applied to problems in physics: ordinary differential equations, complex variables, hyperbolic functions, vector calculus, and numerical analysis. *Prereq*: Mat 343 or consent of instructor.

### Phy 416 Mathematical Physics II (3)
Selected topics in mathematics applied to problems in physics: matrix algebra, Fourier series and harmonic analysis, eigen values and eigen functions, and partial differential equations.

### Phy 421 Electricity and Magnetism I (3)
An intermediate course. D.C. circuit analysis, electrostatics of point charges and extended charge distributions, fields in dielectrics, magnetic fields due to steady currents, Ampere's Law, and induced emfs. Three hours lecture. *Prereq*: Phy 212, Mat 242.

### Phy 422 Optics (3)
An intermediate course. Theory and laboratory practice in geometrical and physical optics. Reflection and refraction at surfaces, lenses, interference and diffraction, spectroscopy, polarization, and the applications of electromagnetic theory to light. Three hours lecture. *Prereq*: Phy 421.

### Phy 423 Electronics (4)
A laboratory course. Electron emission, rectification, voltage and power amplification, oscillators, and test circuits. Vacuum tube and solid state circuits. One hour lecture and six hours lab. *Prereq*: Phy 102.

### Phy 424 Electricity and Magnetism II (3)
An extension of Phy 421. Further development of electrostatics, further treatment of dielectric materials, magnetic materials, ferromagnetism, transients, alternating currents, transmission lines, and electromagnetic radiation. Properties of materials and the field approach to electrodynamics. *Prereq*: Phy 421, Mat 343.

### Phy 432 Introduction to Nuclear Physics (4)
An advanced undergraduate course. Basic nuclear properties, nuclear structure, alpha and beta decay, gamma radiation, nuclear reactions, particle accelerators, detection equipment, and elementary particles. Three hours lecture and three hours lab. *Prereq*: Phy 421.

### Phy 440 Introduction to Research (1 to 3)
Theoretical and experimental work in the library and laboratories. Specific problems in consultation with the faculty adviser. *Prereq*: consent of instructor.

### Phy 444 Seminar in Physics (1)
Oral and written reports on approved topics. Variation in topics from year to year depending on the interests and needs of students. *Prereq*: Senior Standing.

### Phy 451 Advanced Physics Laboratory I (1)
A course to familiarize students with contemporary laboratory equipment and methods. Normally accompanies Phy 421.

### Phy 452 Advanced Physics Laboratory II (1)
A continuation of Phy 451. Normally accompanies Phy 422.

## SCIENCE

*(Sci 150 and Sci 251 are not intended for physics majors.)*

### Sci 150 Basic Physical Science (4)
Interpretation of selected phenomena and data supporting selected theories. Astronomy, Newton's laws of motion, conservation laws, energy, and structure of matter. Not open to science majors. Three hours lecture and two hours lab.

### Sci 251 Matter and Energy (3)
Recommended for students in elementary education. Chemical reactions, electricity, and structure of matter. Cannot be used to satisfy requirements for science majors. *Prereq*: Sci 150.

## DEPARTMENT OF POLITICAL SCIENCE

Clifford H. Harding, *Chairman*

**PSc 201 Introduction to Political Science (3)**
Introduction to the study of political phenomena: Society, state and man; political theory; modern governmental systems; international relations; administration; political organizations; and methodology and approaches in the study of politics.

**PSc 231 American Government (3)**
General principles of the American system of government: organization and functions of the national government — legislative, executive, and judicial; the rights and duties of citizenship; the electorate, political parties, civil rights, and the growing regulatory functions of agencies.

**PSc 331 State and Local Government (3)**
Organization, theory, functions, and politics of state and local government. The role of state government in a changing federal system: finances, services, civil liberties, economic development. *Prereq*: PSc 231.

**PSc 332 Governments and Politics of Western Europe (3)**
Primary attention is focused upon France, West Germany, and Great Britain with secondary attention given to other European systems. Consideration of political cultures, popular participation, political parties, and formal institutions of government. *Prereq*: PSc 231.

**PSc 333 International Politics (3)**
Politics among nations (including politics carried on through international organizations). Power politics, techniques of diplomacy, and methods of current international organizations. Special attention to the interests and policies of the United States. *Prereq*: His 102 or consent of instructor.

**PSc 334 American Political Parties (3)**
Patterns, functions, and history of the American political party system at national, state, and local levels. Theoretical and empirical studies of political interest groups, public opinion, and voting behavior. *Prereq*: PSc 231.

**PSc 335 American Political Ideas (3)**
Ideological treatment of major elements of American politics: constitutionalism, federalism, checks and balances, rights under law, equality and liberty, laissez faire, and the welfare state. *Prereq*: PSc 231.

### PSc 336 Soviet Government and Politics (3)
Concepts of interest and political power within the framework of Soviet history and ideology. Analysis of Soviet national interest, world revolution, and ultimate goals of Soviet policy. Internal politics as shaped by Lenin, Stalin, Khrushchev, and their successors. *Prereq*: PSc 231.

### PSc 337 American Foreign Policy (3)
Theories, goals, and methods of American Foreign Policy in the twentieth century. While the historical development of American Foreign Policy is given attention, emphasis is on current foreign policy problems and goals. *Prereq*: PSc 231.

### PSc 338 Introduction to Political Thought (3)
A survey of great political thinkers of Western Civilization from Plato to the present: Aristotle, Polybius, Cicero, St. Thomas Aquinas, Machiavelli, Hobbes, Locke, Montesquieu, Rousseau, Burke, Mill, and others. Historical background of Western thought; its relevancy to the present. *Prereq*: PSc 231.

### PSc 339 Elements of Public Administration (3)
United States public administration, using texts and case studies illustrating organizational theory, administrative law, budgeting, personnel functions, human behavior and motivation, and techniques of organizational rationality. *Prereq*: PSc 201 or 231.

### PSc 340 American Constitutional Law (3)
The development of the American Constitutional System as reflected in leading decisions of the United States Supreme Court. Emphasis on national powers, federalism, and the bill of rights. *Prereq*: PSc 231.

### PSc 341 International Law (3)
The nature, sources, and subjects of international law. The methods and practices of international legal action. The case method of analysis is employed to gain insight into basic areas of international law. *Prereq*: PSc 231.

### PSc 342 Public Opinion and Propaganda (3)
The dynamics of the public opinion process and the role of public opinion in democratic and non-democratic political systems: conformity to public opinion, the "mass mind," the tyranny of the majority, censorship, and the efficacy of public opinion. *Prereq*: PSc 201 or 231.

### PSc 343 Municipal Government (3)
Municipal politics, problems, and government. Theory and functions of cities, suburbs, and regional areas. Anthropological, sociological, and psychological study of urban man and politics. *Prereq*: PSc 331 or consent of instructor.

**PSc 351 The Politics of the Non-Western Areas (3)**
Emphasis upon the problems of nation-building, political participation, and elite-mass relationships in the less developed nations. Latin American, Asian, or African nations may be stressed as a case study. *Prereq*: PSc 231.

**PSc 352 Civil Liberties and Civil Rights (3)**
A survey of the sources of civil liberties and civil rights in the United States with an inquiry into contemporary problems and their solutions through statutory and constitutional developments. *Prereq*: PSc 231.

**PSc 400 Senior Seminar in Political Science (3)**
Research in political science. Methodology, bibliography, and presentation, both oral and written. The research paper for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all political science majors.

**PSc 410 Independent Studies in Political Science (1 to 3)**
Special research projects, reports, readings in political science. Open to seniors and Honors Program students only. *Prereq*: permission of department chairman.

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## DEPARTMENT OF PSYCHOLOGY

Jay L. Clark, *Chairman*

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**Psy 100 Introduction to Psychology (3)**
A comprehensive study of the origins, motives, and modifications of human behavior. The scientific approach in analyzing behavior patterns; the importance of man's biological inheritance, and the significance of social environment in influencing human living. The simpler techniques in psychological experimentation.

**Psy 352 Child and Adolescent Psychology (3)**
Practical understanding of personality development, maturation, and problems of the child and adolescent. The interrelationship of physical, emotional, and social growth within the context of such social institutions as the home, school, and community. *Prereq*: Psy 100.

**Psy 354 Social Psychology (3)**
The individual in his social setting, including social norms and frames of reference, and the influence of groups and subcultures on personality and social behavior. A comparison and evaluation of research studies in the field of social psychology. *Prereq*: Psy 100.

### Psy 355 Experimental Psychology (3)

A laboratory course to introduce planning, performing, and evaluating psychological experiments. Students carry out both original and classical experiments in the main areas of psychology. The experimental literature is reviewed. Two lectures plus a double-period laboratory per week. *Prereq*: Psy 100.

### Psy 356 The Study of Personality (3)

Designed primarily to provide insight into the meaning, development, and structure of the normal human personality. A number of approaches are investigated, representative theories examined, and techniques for assessing personality characteristics evaluated. Emphasis is on developing propositions established from various points of view. *Prereq*: Psy 100.

### Psy 361 Applied Psychology (3)

Survey of basic psychological principles as applied to industry, engineering, and other professions. *Prereq*: Psy 100.

### Psy 362 History of Psychology (3)

History of the development of psychology from the nineteenth century to the present. The emergence of modern experimental psychology. *Prereq*: Psy 100.

### Psy 363 Psychology of Learning (3)

Basic principles of learning and conditioning. Critical analysis of learning theories and their application to problems of normal and abnormal behavior. *Prereq*: Psy 100.

### Psy 364 Physiological Psychology (3)

Neurological, endrocrinological, and other physiological processes underlying human behavior. Effects of drugs on behavior. Electrode implantation and other techniques for direct study of brain-behavior relationships. Current problems in the physiology of motivation, emotion, learning, memory, and attention processes. *Prereq*: Psy 100.

### Psy 370 Mental Hygiene (3)

Analysis of the individual from several standpoints according to the principles of mental hygiene. The application of these principles to the individual's problems of adjustment to the school and society. Field trips. *Prereq*: Psy 100.

### Psy 375 Abnormal Psychology (3)

The nature and manifestations of normality and abnormality, mental mechanisms and symptoms, psychoneuroses, psychoses, and the psychopathic personality. Typical cases; functions of both professional and lay people in dealing with abnormality. *Prereq*: Psy 100 or equivalent.

**Psy 400 Senior Seminar in Psychology (3)**
Research in psychology. Methodology, bibliography, and presentation, both written and oral. The research paper required for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all psychology majors.

**Psy 410 Independent Studies in Psychology (1 to 3)**
Special research projects, reports, readings in psychology. Open to seniors and Honors Program students only. *Prereq*: permission of department chairman.

**Psy 415 Verbal Behavior (3)**
Methods, materials, and theoretical issues in the study of verbal behavior and verbal learning. Serial, paired-associate, and free-recall learning; assessment of the effects of existing language habits and "higher-order" processes, such as coding behavior, on memory, transfer, and the acquisition of verbal habits. *Prereq*: Psy 100.

**Psy 420 Statistics for the Behavioral Sciences (3)**
An advanced course covering statistical topics of special interest to the behavioral scientist such as nonparametric tests, chi square, analysis of variance.

**Psy 425 Psychological Testing and Measurement (3)**
Principles of psychological measurement including standardization, scale transformation, reliability, validity, and item-analysis. Emphasis on the use of tests for the solution of problems in industrial, business, and educational settings. *Prereq*: Psy 100.

**Psy 430 Human Sexual Behavior (3)**
An intensive study of those variables under which human sexual behavior functions. Research from sociological and medical studies is integrated with psychological knowledge. *Prereq*: six hours in psychology and Upper Division or Senior Standing.

**Psy 470 Psychology of Perception and Cognition (3)**
Principles underlying perception, cognition, and cognitive organization, based on current research and theory. Application of these principles to present social problems and various areas of psychology. *Prereq*: six hours in psychology.

PUBLIC SCHOOL NURSING See Department of Nursing

RUSSIAN See Department of Foreign Languages

SCIENCES For Sci 150 and Sci 251 see Physics. For Sci 250 and Sci 350 see Earth, Space, and General Sciences.

SOCIAL SCIENCE See Department of History

# DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

Glenn W. Samuelson, *Chairman*

## ANTHROPOLOGY

### Ant 231 Introduction to Anthropology (3)

Man's biological and cultural evolution; comparative and functional analysis of culture.

### Ant 331 Human Evolution (3)

Evolutionary thought, origin, and antiquity of the primates; fossil man, and living races. *Prereq*: Ant 231. (Some background in biology recommended.)

### Ant 332 Social Organization (3)

Types of social groups, their structure and function. Kinship-based groupings, bands, villages, and larger units, associations, and secret societies. Forms of organization characteristic of preliterate cultures. *Prereq*: Ant 231.

### Ant 333 Cultural Dynamics (3)

An empirical and theoretical study of culture changes. Impact of Western civilization on preliterate cultures. *Prereq*: Ant 231.

### Ant 334 World Ethnography (3)

Selective survey of the preliterate cultures of the world, especially those of Oceania, Tropical Africa, and the American Indian. Emphasis on the cultures as they were before the changes wrought by contact with Western civilization. Various levels of societal complexity. *Prereq*: Ant 231.

### Ant 335 Personality and Culture (3)

Social and cultural factors in personality formation. Cross-cultural variations in the definitions and handling of deviant behavior. The psychological stresses of acculturation and accelerated cultural change. *Prereq*: Ant 231.

### Ant 336 Social Anthropology (3)

Comparative study of the structure, development, and function of human society: social, economic, political, and religious institutions. *Prereq*: Ant 231.

### Ant 340 [Also Lan 340] Introduction to Linguistics (3)
Introduction to phonological, morphological, and syntactical language analysis; historical reconstruction; language classification and lexico-statistical dating. Designed for other students as well as language and anthropology majors.

### Ant 380 [Also Lan 380] Language and Culture (3)
Language as an aspect of culture; linguistic-perceptual-cognitive categories, social and psychological aspects of language. *Prereq*: Ant 340 or permission of instructor.

### Ant 400 Senior Seminar in Anthropology (3)
Research in anthropology. Methodology, bibliography, and presentation, both oral and written. The research paper for the seminar must be acceptable as a required departmental Senior Research Paper.

### Ant 403 [Also Art 403] Primitive Art (3)
Analysis of primitive art as determined principally through ritual and myth. Focus of content divided among the following: prehistory to Early Ancient Near East; contemporary primitive cultures; psychoanalytical interpretation; and contemporary primitivistic interest of the West.

### Ant 410 Independent Studies in Anthropology (1 to 3)
Special research projects, reports, readings in anthropology. Open to Seniors and Honors Program students only. *Prereq*: permission of department chairman.

## SOCIOLOGY

### Soc 231 Introduction to Sociology (3)
A course in the liberal arts tradition, designed to enrich the student's intellectual resources by equipping him with the sociological perspective on human behavior and the basic tools of sociological analysis.

### Soc 332 Contemporary Social Problems (3)
Theories of the nature of man, society, and culture. The conditions, causes, and possible corrections and prevention of current social disorders: urban unrest, racial tension, poverty, addictions, crime, and delinquency. *Prereq*: Soc 231.

### Soc 333 The Family (3)
A comparative, historical, and cross-cultural approach to the family as an institution. Theories and empirical research on mate selection, courtship, marital adjustment, parent-child relationship, and family crisis. *Prereq*: Soc 231.

### Soc 334 Juvenile Delinquency (3)
Nature and extent of delinquency; theories of delinquency; evaluation of programs for its prevention and control; role of social agencies and their effect on delinquency. *Prereq*: Soc 231.

### Soc 335 Racial and Cultural Minorities (3)

The history of immigration to America; problems of assimilation for minority groups such as American Indians, Mexican Americans, Puerto Ricans, and Negro Americans; the meaning of, responses to, and reduction of prejudice and discrimination. *Prereq*: Soc 231.

### Soc 336 Urban Sociology (3)

Historical development of cities; characteristics of urban institutions; urban ecology; demographic patterns; the city's races, nationalities, and social classes; problems of the city and city planning. *Prereq*: Soc 231.

### Soc 337 Sociological Theory (3)

A survey of historical and contemporary theories of society and social behavior. The logic of systematic theory construction, and relationship between theoretical models and empirical research in substantive fields of sociology. *Prereq*: Soc 231.

### Soc 338 Criminology (3)

The development of criminology as a discipline. Contemporary theories, empirical research, and the systematic study of the causation and prevention of criminal behavior. *Prereq*: Soc 231.

### Soc 339 Social Stratification (3)

A critical survey of major theories of stratification (Plato, Marx, Weber, Parsons, etc.) Analysis of social inequality in contemporary societies. *Prereq*: Soc 231.

### Soc 340 Introduction to Social Work (3)

History, development, and theory of social case work, group work, and community organization. *Prereq*: Soc 231.

### Soc 341 Social Change (3)

Measuring and explaining social change. Modernization of traditional societies; sources, dimensions, and consequences of trends in industrial societies; strategies for planning and guiding change. The social sciences as agents of induced change. *Prereq*: Soc 231.

### Soc 342 Community Analysis and Applied Social Change (3)

Social and cultural change in modern and emerging nations. The rate, degree, direction, mechanisms, and planning of change are emphasized. *Prereq*: Soc 231, 341.

### Soc 343 Sociology of Small Groups (3)

Review of literature, with emphasis on experimental findings and models; critical survey of methods, such as group dynamics and group therapy, which are designed to change human behavior through the use of interpersonal or collective experiences. *Prereq*: Soc 231.

**Soc 344 Sociology of Complex Organizations (3)**
Theory and research of large-scale formal organizations: industrial, governmental, religious, military, political, and educational, with an emphasis on analysis of bureaucracy as the significant form of social organization in the West. *Prereq*: Soc 231, 336.

**Soc 400 Senior Seminar in Sociology (3)**
Research in sociology. Methodology, bibliography, and presentation, both oral and written. The research paper for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all sociology majors.

**Soc 410 Independent Studies in Sociology (1 to 3)**
Special research projects, reports, readings in sociology. Open to seniors and Honors Program students only. *Prereq*: permission of department chairman.

SPANISH See Department of Foreign Languages

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## DEPARTMENT OF SPEECH AND THEATRE

William M. Morehouse, *Chairman*

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### SPEECH

**Sph 100 Bases of Speech (3)**
Social, physiological, neurological, physical, phonetic-linguistic, psychological, and semantic bases of speech. An introduction to terms and concepts.

**Sph 101 Fundamentals of Speaking (2)**
Development of poise and confidence in formal and informal speaking situations. Emphasis on audience analysis, finding materials, organization, and delivery.

**Sph 102 Advanced Public Speaking (3)**
Experience in developing more extended public addresses for students who have had elementary work. Emphasis on content, structure, and style. *Prereq*: Sph 101 or consent of instructor.

**Sph 103 Discussion (3)**
Effective leadership and participation in small groups: committees, conferences, panels, symposia. Topics vital to contemporary society are discussed.

### Sph 105 Voice and Diction (3)

Theory and practice in techniques leading to more effective communication: better use of voice, articulation, and rhythm.

### Sph 106 Introduction to Phonetics (3)

Study of the sounds of the English language. Development of skills in their recognition, production, and transcription.

### Sph 201 Public Address (3)

The place of public speaking in the social, political, economic, and religious life at selected historical occasions through the study of representative speakers and their speeches.

### Sph 203 Argumentation and Debate (3)

Function of debate in a democracy. Principles of argumentation and debate, including analysis, briefing, evidence, reasoning, and refutation. Class debating on vital issues. *Prereq*: Sph 101 or consent of instructor.

### Sph 204 General Semantics (3)

The study of meaning: its development and its variability in communication. The influence of signs and symbols on everyday behavior.

### Sph 230 Business and Professional Speech Communication (2)

Communication theory. Practice in effective speaking and listening; reports and sales presentations; policy speeches, conference leadership techniques, group dynamics, radio and television speaking; interpersonal communication in the business and professional setting.

### Sph 303 Advanced Argumentation and Debate (3)

Experience in various types of debating. Emphasis on educational debating. Practice in debating before invited informed and critical audiences and before the general public. *Prereq*: Sph 203 or consent of instructor.

### Sph 305 History of Rhetorical Theory: Classical (3)

Development of rhetoric, ancient Greece through secondary century A.D., and Roman rhetoric. Early Sophists, Socrates, Aristotle, Isocrates, Cicero, and Quintilian.

### Sph 306 History of Rhetorical Theory: Medieval to Modern (3)

Rhetoric from St. Augustine to modern communication theory. Emphasis on 1600-1850 (Ramus, Bacon, Campbell, Blair, and Whately) and 1900 to present (Winans, Woolbert, Monroe).

### Sph 401 Psychology of Speech (3)
Communication as a psychological phenomenon. Emotional and mental processes in human communication. Function of the senses, motivation, and personality. Barriers to understanding. Confrontation.

### Sph 402 Teaching Speech and Drama (3)
Theory and practice in teaching junior and senior high school speech and drama courses and in directing co-curricular programs in junior and senior high school.

### Sph 403 Persuasion (3)
Current theories of attitude and attitude change. Practice in speaking to modify behavior through appeals to the drives and motives of the listener. *Prereq*: Sph 101 or consent of instructor.

## SPEECH PATHOLOGY AND AUDIOLOGY

### SpP 000 Remedial Speech (1 clock hour — no credit)
Correction of problems of articulation, voice, and rhythm. Required of all students whose speech falls below a minimal standard.

### SpP 170 Speech and Language Development (3)
Theoretical origin of speech in mankind and the development of speech in the individual. Normal development of speech is stressed.

### SpP 201 Introduction to Speech Problems (3)
Survey of speech problems in children. The teacher's role in therapy. Emphasis on speech improvement in the classroom.

### SpP 202 Speech Pathology I (3)
Diagnosis, etiology, and treatment of functional speech disorders.

### SpP 203 Speech Pathology II (3)
Diagnosis, etiology, and treatment of organic speech disorders.

### SpP 301 Introduction to Audiology (3)
A survey course directed to an understanding of educational and therapeutic problems. Aspects of hearing, hearing evaluation, and hearing therapy; medical, developmental, social, physical, and psychological properties of hearing and sound.

### SpP 303 Clinical Practicum (1 or 2)
Supervised practice in the Speech and Hearing Clinic, designed to prepare the student to evaluate and provide therapy for individuals having communication problems. Practicum provides a graduated series of experience with both children and adults. No more than 2 credits may be taken in any semester. *Prereq*: permission of instructor.

### SpP 304 Auditory Training and Speech Reading (3)
The dual approach to aural rehabilitation of the hard-of-hearing: the relationships among the various sense modalities in the perception of speech, and the methods of speech reading and auditory training. *Prereq*: SpP 301.

### SpP 305 Audiometry (2)
A lecture-laboratory course which develops competencies in hearing measurement. *Prereq*: SpP 301.

### SpP 402 Methods in Teaching the Speech and Hearing Handicapped (3)
Orientation to the professional situation. Organization and administration of a speech and/or hearing program (K-12).

### SpP 403 Clinical Principles in Speech and Hearing (3)
Theories of speech and of related disciplines; principles and techniques of therapy. Analysis and criticism, designed to develop professional confidence and competence.

### SpP 404 Inter-Professional Seminar in Speech and Hearing (2)
Explores the interrelationship between the speech and hearing therapist and members of other professions who diagnose or treat basic or allied problems of the person with a speech or hearing problem. *Prereq*: permission of instructor.

## THEATRE ARTS

### ThA 100 Theatre Practice (1)
Laboratory experience in technical aspects of play production. Majors must take three semesters of this course.

### ThA 101 Introduction to the Theatre (3)
Survey of the arts and crafts used in play production: writing, directing, scene design, lighting, costuming, and makeup. Criticism of plays and productions. This is the basic course and must be taken the first semester after declaring intention to complete one of the theatre arts degree programs.

### ThA 103 Beginning Acting (3)
Theory and practice in creating the character through development of the actor's physical and emotional responses to imaginary stimuli. Participation in student-directed productions required. One hour of lab.

### ThA 104 Introduction to Technical Production (3)
Selected technical aspects of play production: scene design, lighting, and production organization.

### ThA 105 Oral Interpretation (3)
Theory and practice of oral presentation of various types of literature to an audience. Attention to teachers' problems in selection and presentation of material.

### ThA 201 Stage Makeup (2)
Theory and practice in design and application of makeup for the stage.

### ThA 202 Television Production Techniques (2)
Analysis of studio practices. Survey of basic television tools; cameras, sound and control equipment.

### ThA 203 Intermediate Acting (3)
Continuation of ThA 103. Participation in student-directed productions required. One hour lab. *Prereq*: ThA 103.

### ThA 204 Stagecraft and Production Management (3)
Planning, construction, painting, rigging, and shifting of scenery. Management of all operations backstage and in the house. Practical experience in college productions.

### ThA 205 Advanced Oral Interpretation (3)
Advanced work in oral presentation of literature with emphasis on the theory and technique of Readers Theatre. *Prereq*: ThA 105.

### ThA 206 Educational Theatre Production (3)
Selection of plays suitable for elementary schools and junior and senior high schools. Techniques for effective minimal staging.

### ThA 207 Creative Dramatics (3)
Theory and practice in the use of impromptu dramatizations as a teaching device and as a means of developing expressiveness in children. The class works with children.

### ThA 301 Play Direction (3)
Theory and practice in play production: play selection, preparation of the script, casting, rehearsing. Direction of a one-act play before an invited audience required of each student. *Prereq*: ThA 103.

### ThA 302 Directing and Producing the Instructional Television Program (3)
Planning the non-dramatic television production. Practice in the use of television equipment. Production of an original instructional television program required of each student.

**ThA 304 Scene Design (3)**
Principles and practice in designing an appropriate and expressive milieu for the play. Perspective sketches, working drawings, and models. Historical development of stage scenery. *Prereq*: ThA 204.

**ThA 305 Stage Costuming (3)**
Historical development of dress. Principles and practice in the design and construction of stage costumes. One hour of lab.

**ThA 307 Stage Lighting (3)**
Elementary electrical and optional theory. Analysis of stage lighting equipment and control systems. Principles and practices in effectively lighting the play.

**ThA 308 History of the Theatre to the Sixteenth Century (3)**
Development of the theatre from primitive times through pre-Shakespearean period. Analysis of theatrical productions as indications of the life style of each historical period.

**ThA 309 History of the Theatre, Sixteenth Century to Present (3)**
Development of theatre from Renaissance to Contemporary period.

**ThA 310 History and Aesthetics of the Oriental Theatre (3)**
Impact of oriental theatrical traditions on Western thought and art. Oriental integration of form and content, especially in the theatres of India, China, and Japan.

**ThA 401 Advanced Directing (3)**
Directing as a creative aspect of play production. Problems in directing actors in varied styles and forms of plays. Direction of a full-length play required of each student. One hour lab. *Prereq*: ThA 301.

**ThA 402 Directing and Producing the Dramatic Television Program (3)**
Planning the program. Preparing the shooting script. Practice in rehearsing with actors and cameras. Production of a short television drama required of each student. One hour lab. *Prereq*: ThA 301.

**ThA 403 Advanced Acting (3)**
Styles of acting. Fully staged acting projects presented and defended before an invited audience. Participation in campus plays required. One hour of lab. *Prereq*: ThA 203.

**ThA 404 Advanced Scene Design (3)**
Analysis of excellent scene designs of the past. Practice in maximizing the visual impact of stage scenery. Design projects for selected visually challenging plays. Students design for both student-directed and major productions on campus and in the area. One hour of lab. *Prereq*: ThA 304.

# Administration

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| PRESIDENT | Paul W. Rossey |
| VICE PRESIDENT FOR ACADEMIC AFFAIRS | Albert E. Filano |

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| Dean of Faculty | Albert E. Filano |
| Assistant to the Dean of Faculty | Bernard F. Siegel |
| Dean of Undergraduate Studies | Emil H. Messikomer |
| Assistant Dean of Undergraduate Studies | John C. Lewis |
| Director of Scheduling and Academic Records | William U. Hodgson |
| Dean of Graduate Studies | Willard J. Trezise |
| Assistant to the Dean of Graduate Studies | William C. Skillen |
| Dean, College of Arts and Sciences | Kenneth C. Slagle |
| Assistant to the Dean, College of Arts and Sciences | Wayne Hayward |
| Dean, School of Arts and Letters | John W. Clokey |
| Dean, School of Education | Harold W. Benda |
| Assistant Dean, School of Education | John A. Lander |
| Associate Dean for Graduate Studies, School of Education | Michael F. Bannon |
| Principal of the Laboratory School | Gerald B. Cartright |
| Director of Student Teaching | Mark M. Evans |
| Dean, School of Health and Physical Education | Edwin L. Youmans |
| Assistant to the Dean, School of Health and Physical Education | Edwin B. Cottrell |
| Associate Dean for Graduate Studies, School of Health and Physical Education | Edward N. Norris |
| Director of Athletics | Robert W. Reese |
| Dean, School of Music | Lloyd C. Mitchell |
| Assistant Dean, School of Music | Alexander Antonowich |
| Associate Dean for Graduate Studies and Research, School of Music | Charles A. Sprenkle |
| Dean, School of Sciences and Mathematics (Interim) | Russell K. Rickert |
| Dean, School of Social and Behavioral Sciences | Byron Y. Fleck |
| Director of Summer Sessions | Walter E. Buechele |
| Director of Admissions | R. Godfrey Studenmund |
| Assistant to the Director of Admissions | Herbert Lee |
| Assistant to the Director of Admissions | William E. Kipp |

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| Director of Cultural Affairs | Constantine Johns |
| Director of Public Relations and Publications | William P. Houpt |
| Publications Editor | John Bosworth-Fling |

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| Director of the Educational Development Center | Everett A. Landin |
| Assistant Director, Educational Development Center | Donald Jenkins* |
| Director of Research and Related Services | Martin J. Higgins |
| Associate Research Director for Computer Services | Wesley Fasnacht |
| Associate Research Director for Grants | Ernest L. Peters |
| Director of Library Services | Frank Q. Helms |
| Assistant to the Director of Library Services | Mary E. Nehlig |
| Director of Educational Media Services | Richard L. Strayer |

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| Dean of Student Affairs (Acting) | Elinor Z. Taylor |
| Director of Financial Aid to Students | William Benner |
| Director of Social Activities | Walter Blair |
| Dean of Men | W. Glenn Killinger |
| Assistant Dean of Men | John W. Harrington |
| Assistant Dean of Men | Robert H. Jensen |
| Dean of Women | Bernice Bernatz |
| Assistant Dean of Women | Anne Speisz |
| Assistant Dean of Women | Florence Inghram |
| Assistant Dean of Women | Dorothy DePew |
| Director of Guidance and Counseling | Thomas B. Williams |
| Director of Placement Services | Edward T. Twardowski |
| Director of Intracollegiate Governmental Association | Robert B. Norris |
| Manager of College Bookstore | Richard Fitzgerald |
| Director of Medical Services | Philip Kistler, M.D. |
| Assistant Director of Medical Services | Jack C. White, M.D. |

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* On detached service from the Pennsylvania Department of Education.

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| Director of Business Affairs | Everett E. Shaefer |
| Assistant Director of Business Affairs | David E. Hickman |
| Personnel Officer | Robert E. Holm |
| Purchasing Agent | Emily C. Haines |
| Budget Analyst | Sara Y. Baxter |

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| Director, Division of Facilities | Robert C. Hannum |
| Assistant to the Director, Division of Facilities | Lloyd W. Black |
| Chief, Physical Plant Department | Alfred Sykes |
| Chief, Security Department | Samuel H. Burger |
| Chief, Supply and Equipment Department | Harold C. Davidson |
| Chief, Housekeeping Department | Agnes Speakman |

# Faculty

[as of December 1, 1969]

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The following symbols indicate absences from the College:

① Sabbatical Leave—1970-71
② Sabbatical Leave—Fall, 1970
③ Sabbatical Leave—Spring, 1971
④ Leave of Absence—1970-71
⑤ Leave of Absence—1969-71

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PAUL W. ROSSEY (1969) *President, Professor of Education*
B.S. Jersey City State College, M.A., Ed.D. New York University

ALBERT E. FILANO (1956) *Interim Dean of Faculty and Academic Affairs, Professor of Mathematics*
B.S., M.S. University of Pennsylvania, Ph.D. Pennsylvania State University

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THOMAS J. AHLBORN (1967) *Associate Professor of Mathematics*
B.S. California State College, M.A. Kent State University, University of Rochester, University of Delaware

PETER AIZUPITIS (1967) *Assistant Professor of History*
B.A. Swarthmore College, M.S.M. University of Notre Dame, University of Delaware

ROGER K. ALFORD (1968) *Instructor of Health Education (Part-time)*
B.S. West Virginia University, Physical Therapy Certificate Ohio State University

LOIS W. ALT (1966) *Associate Professor of Voice*
B.S. Indiana State College, B.Mus. University of Michigan, Allegheny College, M.Mus. University of Michigan, University of Southern Florida, University of Michigan

②ALEXANDER ANTONOWICH (1945) *Assistant Dean, School of Music, Professor of Music*
B.S. Juilliard School of Music, M.A., Ed.D. Columbia University

ELEANOR W. ASHKENAZ (1968) *Professor of Chemistry*
B.S., Ph.D. University of Pennsylvania

JAMES ATTAWAY (1969) *Instructor of Physical Education (Part-time)*
A.A. Nebraska Western College, B.A. Adams State College, Adams State College, Montclair State College

ANNE K. AVERY (1969) *Instructor in Early Childhood Project—Research and Related Services*
A.B. Middlebury College, University of Virginia, George Washington University

HAROLD BABSON, JR. (1969) *Associate Professor of Business and Economics*
B.S. in Bus. Adm., M.B.A. Northeastern University, University of Pennsylvania

TIBOR BACHMANN (1968) *Associate Professor of Music Education/Piano*
Franz Liszt Royal State Music Academy (Hungary), D.Mus. Combs College of Music, Temple University

DOROTHY D. BAILEY (1958) *Professor of English*
B.A. Our Lady of the Lake College, M.A. University of Texas, Ph.D. University of Wisconsin

GEORGE H. BALDWIN (1967) *Associate Professor of Health and Physical Education*
B.S. Bowling Green University, M.A., Professional Diploma Columbia University

MICHAEL F. BANNON (1955) *Associate Dean for Graduate Studies, School of Education, Professor of Education*
B.S. Troy State University, M.A. Columbia University, Ed.D. George Peabody College for Teachers

PAUL A. BANYACSKI (1965) *Assistant Professor of Philosophy*
B.A. Eastern Baptist College, Eastern Baptist Seminary, Bryn Mawr College

EDWARD A. BARROW (1956) *Associate Professor of Brass*
B.Mus., M.Mus. Eastman School of Music–University of Rochester, West Virginia University

LUTHER R. BARTH (1964) *Associate Professor of Secondary Education and Professional Studies and of Counselor Education*
B.S. Pennsylvania State University, M.Ed. Loyola University, Pennsylvania State University

ELIZABETH B. BEATTY (1960) *Assistant Professor of Music Theory and Composition/Piano/Music Education*
B.Mus. University of Michigan, Curtis Institute of Music, Ed.M. Temple University

MARSHALL J. BECKER (1968) *Associate Professor of Anthropology*
B.A., M.A. University of Pennsylvania, University of Pennsylvania

ROBERT M. BEDFORD (1966) *Associate Professor of Piano*
B.Mus., M.S. Juilliard School of Music

HAROLD W. BENDA (1956) *Dean, School of Education, Professor of Education*
B.A. University of Northern Iowa, M.A. University of Iowa, Ed.D. New York University

WILLIAM R. BENNER (1938) *Director of Financial Aid to Students, Assistant Professor*
B.S. West Chester State College, M.A. Temple University

JERE S. BERGER (1969) *Associate Professor of English*
B.A. Oberlin College, S.T.B. Episcopal Theological Seminary, S.T.M. Union Theological Seminary, M.F.A. Carnegie-Mellon University

JAY H. BERKOWITZ (1969) *Associate Professor of Speech and Theatre*
B.S., M.A. Temple University, Temple University

BERNICE H. BERNATZ (1954) *Dean of Women, Associate Professor*
B.A. Iowa State Teachers College, M.A. University of Michigan

ROBERT W. BERNHARDT (1965) *Associate Professor of Biology*
B.S., M.S. Syracuse University

THOMAS E. BERRY (1946) *Professor of English*
A.B., A.M. University of Pennsylvania, Ph.D. University of Pittsburgh

①FLOYD R. BIELSKI (1961) *Associate Professor of Geography*
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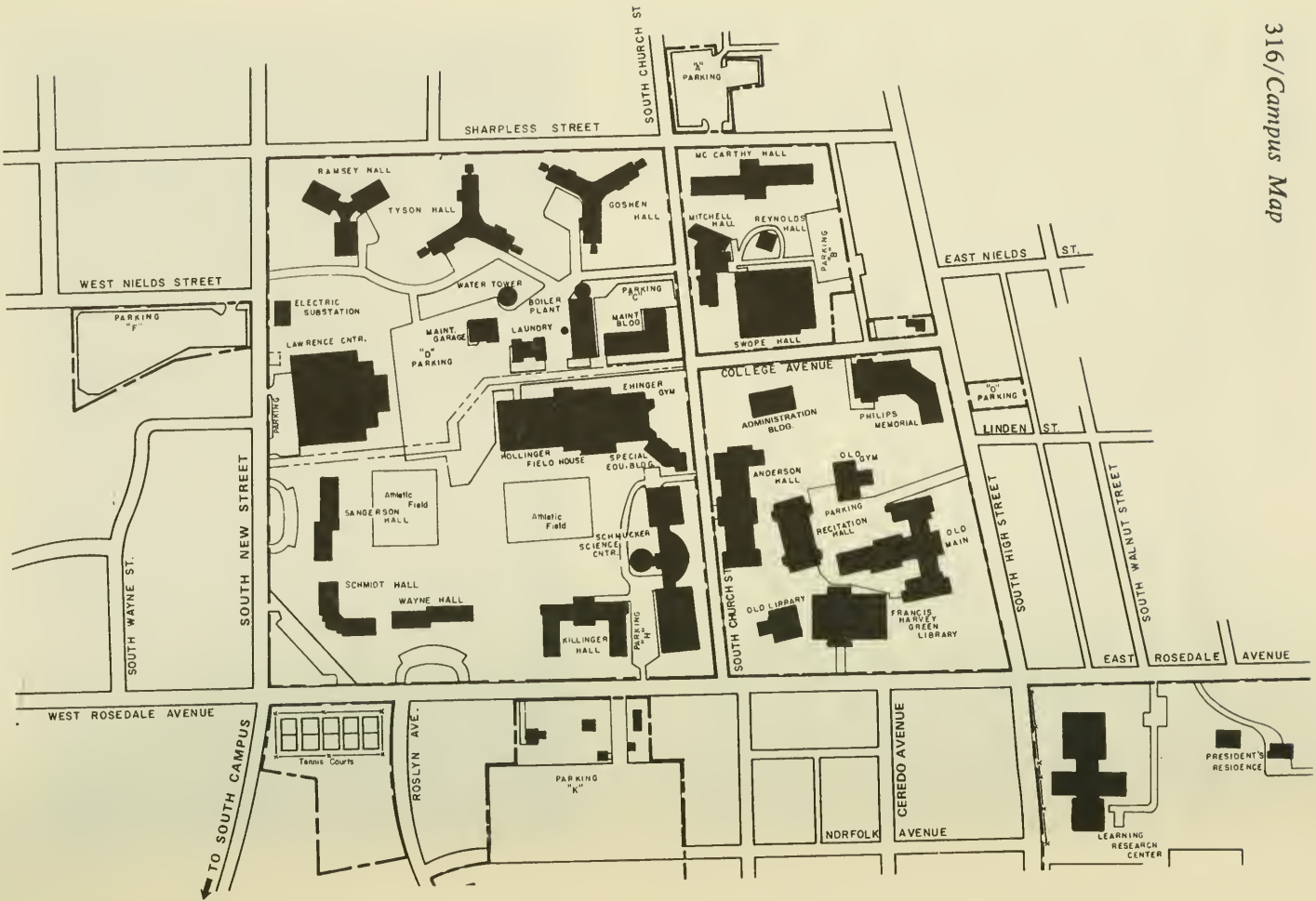
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# Request for Application Forms

[Secondary school students are asked to send this request as soon as possible following completion of their junior year.]

1. Name_____
   (Last) (First) (Second)

2. Number and Street_____ County_____

3. City_____ State_____ Zip Code_____

4. When do you wish to enter West Chester?_____, 19____
   (State the month: September, January, or June)

5. In what curriculum do you wish to enroll?

   ELEMENTARY EDUCATION ☐

   SECONDARY EDUCATION ☐

   List Major _____

   HEALTH AND PHYSICAL EDUCATION ☐

   HEALTH EDUCATION ☐

   SPEECH PATHOLOGY AND AUDIOLOGY ☐

   ARTS AND SCIENCES ☐
   List Major_____

   BUSINESS ADMINISTRATION ☐

   MUSIC ☐
   Check the music degree you wish to pursue:

   B.S. in Music Education ☐

   Bachelor of Arts ☐

   Bachelor of Music ☐

6. Have you attended any other college? Yes ☐ No ☐

   If so, give name of the college_____

   How many semesters did you spend there?_____

7. Do you intend to apply as a Resident Student? ☐ Day Student? ☐

8. When will you (or when did you) graduate from secondary school?

   Month_____ Year_____

Send to:

Director of Admissions
West Chester State College
West Chester, Pennsylvania 19380

Note: When this information is received, instructions for completing your application will be sent to you. Do **not** send application fee with this form.

5/70

# Communications Directory

| | Office | Building | (Direct Dialing) 436 plus: |
|---|---|---|---|
| Admission/Catalogs | Director of Admissions | Administration | 2933 |
| Athletic Events | Director of Athletics | Ehinger | 2743 |
| Audio-Visual Aids | Educational Media Services | Anderson | 2233 |
| Books/Student Suppplies | College Bookstore | Recitation | 2242 |
| Business/Fiscal Matters | Director of Business Affairs | Philips | 2211 |
| Certification/Curricula/ Graduation/Selective Service | Dean of Undergraduate Studies | Administration | 2601 |
| Counseling | Guidance and Counseling Center | Old Main | 2611 |
| Cultural Affairs | Director of Cultural Affairs | Administration | 2336 |
| Faculty/College Speakers | Director of Public Relations | Administration | 2883 |
| Film Service | Del-Chester Regional Instructional Materials Center | Anderson | 696-8735 |
| Financial Aid/Student Jobs | Director of Financial Aid | Lawrence | 2627 |
| Graduate Studies/Catalogs | Dean of Graduate Studies | Administration | 2243 |
| Housing (Men) | Dean of Men | Killinger | 2531 |
| Housing (Women) | Dean of Women | Old Main | 2537 |
| Infirmary | Health Service | Reynolds | 2509 |
| Library Services | Director, Library Services | Francis Harvey Green Library | 2747 |
| Music Events (College) | School of Music | Swope | 2739 |
| Placement | Director of Placement Services | Reynolds | 2501 |
| Research/Computer Services | Research and Related Services | Learning/Research | 2835 |
| Speech/Hearing Clinic | Dept. of Speech/Theatre Clinic | 620 S. High | 2237 |
| Student Teaching | Director of Student Teaching | 628 S. High | 2316 |
| Theatre 208 | Dept. of Speech and Theatre | Recitation | 2533 |
| Transcripts/Veterans | Director of Scheduling | Administration | 2337 |
| Use of Facilities | Director, Facilities Division | Philips | 2712 |

## SCHOOLS

| | | | |
|---|---|---|---|
| Arts and Letters (Anderson) | 2338 | Music (Swope) | 2739 |
| Education (Anderson) | 2428 | Sciences and Mathematics (Schmucker) | 2540 |
| Health and Physical Education (Field House) | 2825 | Social and Behavioral Sciences (Anderson) | 2824 |

## CURRICULA

| | | | |
|---|---|---|---|
| Art (Administration) | 2755 | History (Anderson) | 2201 |
| Biology (Schmucker) | 2538 | Mathematics (Anderson) | 2440 |
| Business/Economics (Anderson) | 2236 | Music (Swope) | 2739 |
| Chemistry (Schmucker) | 2631 | Nursing-Dental Hygienists (Schmucker) | 2219 |
| Earth/Space (Schmucker) | 2570 | Philosophy (Old Main) | 2841 |
| Education (Anderson) | 2428 | Physics (Schmucker) | 2540 |
| Elementary | 2944 | Political Science (Anderson) | 2746 |
| Secondary | 2426 | Psychology (Old Main) | 2945 |
| English (Anderson) | 2335 | Sociology-Anthropology (Old Main) | 2657 |
| Foreign Languages (Recitation) | 2700 | Special Education (Special Ed.) | 2362 |
| Geography (Anderson) | 2343 | Speech and Theatre (Old Main) | 2500 |
| Health/Physical Education (Field House) | 2825 | | |

**MAILING ADDRESS:** West Chester State College, West Chester, Pa., 19380

West Chester State College, West Chester, Pennsylvania, 19380

UNDER-
GRADUATE
STUDIES

Centennial: 1871/1971

SUMMER
1971

# WEST CHESTER STATE COLLEGE CATALOGUE

## UNDERGRADUATE SUMMER CALENDAR 1971

### Pre Session

Pre-registration ends 4 p.m. — Thursday, May 27
Registration * — Monday, June 7
Students will register alphabetically according to last name:

| | |
|---|---|
| A thru F | 8:00 a.m. to 9:45 a.m. |
| G thru L | 9:45 a.m. to 11:30 a.m. |
| M thru R | 12:30 p.m. to 2:15 p.m. |
| S thru Z | 2:15 p.m. to 4:00 p.m. |

Classes begin 8:00 a.m. — Tuesday, June 8
Classes end — Friday, June 25

---

### Regular Session

Pre-registration ends 4 p.m. — Friday, June 18
Registration * — Monday, June 28
Students will register alphabetically according to last name:

| | |
|---|---|
| A thru F | 8:00 a.m. to 9:45 a.m. |
| G thru L | 9:45 a.m. to 11:30 a.m. |
| M thru R | 12:30 p.m. to 2:15 p.m. |
| S thru Z | 2:15 p.m. to 4:00 p.m. |

Classes begin 8:00 a.m. — Tuesday, June 29
Classes end — Friday, August 6

---

### Post Session

Pre-registration ends 4:00 p.m. — Friday, July 30
Registration * — Monday, August 9
Students will register alphabetically according to last name:

| | |
|---|---|
| A thru F | 8:00 a.m. to 9:45 a.m. |
| G thru L | 9:45 a.m. to 11:30 a.m. |
| M thru R | 12:30 p.m. to 2:15 p.m. |
| S thru Z | 2:15 p.m. to 4:00 p.m. |

Classes begin 8:00 a.m. — Tuesday, August 10
Classes end — Friday, August 27

---

* No undergraduate may register in advance of his scheduled hour and date. Employed students should arrange with their employers for time off in order to register at their designated time.

# WEST CHESTER STATE COLLEGE CATALOGUE

## UNDERGRADUATE STUDIES

## SUMMER SESSIONS 1971

## Centennial:

1871
1971

ACCREDITATION

The Middle States Association of Colleges and Secondary Schools/The National Council for Accreditation of Teacher Education/The American Association for Health, Physical Education, and Recreation/The National Association of Schools of Music.

MARCH 1971 WEST CHESTER, PENNSYLVANIA 19380

# Administration

| | |
|---|---|
| PRESIDENT | PAUL W. ROSSEY |
| VICE PRESIDENT FOR ACADEMIC AFFAIRS | ALBERT E. FILANO |
| Director of Summer Sessions | WALTER E. BUECHELE |
| Interim Director of Summer Sessions During 1971 Spring Semester | EDWARD H. GIBSON |
| Dean of Undergraduate Studies | EMIL H. MESSIKOMER |
| Dean of Graduate Studies | WILLARD J. TREZISE |
| Dean, School of Arts and Letters | JOHN W. CLOKEY |
| Dean, School of Education | HAROLD W. BENDA |
| Dean, School of Health and Physical Education | EDWIN L. YOUMANS |
| Interim Dean, School of Music | JAMES J. WRIGHT |
| Dean, School of Sciences and Mathematics | RUSSELL K. RICKERT |
| Dean, School of Social and Behavioral Sciences | BYRON Y. FLECK |
| Director of Admissions | R. GODFREY STUDENMUND |
| Director of Scheduling and Academic Records | WILLIAM U. HODGSON |
| Dean of Students | LOUIS F. WEISLOGEL |
| Dean of Men | JOHN W. HARRINGTON |
| Dean of Women | BERNICE BERNATZ |
| Summer Sessions Recreation Director | ROBERT W. REESE |
| Dean of Administration | ELINOR Z. TAYLOR |
| Director of Financial Aid to Students | THEODORE H. BUTCHER |
| Director of Placement and Career Services | EDWARD T. TWARDOWSKI |
| Director of Business Affairs | EVERETT E. SHAEFER |
| Director of Facilities | ROBERT C. HANNUM |

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*Inside Front Cover* Calendar for Undergraduate Summer Sessions

*Inside Back Cover* Map of the College


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*The provisions of this Catalogue are not to be considered an irrevocable contract between the student and the College. West Chester State College reserves the right to change any provisions or requirements at any time within the student's term of attendance.*

## Undergraduate Degree Programs Offered at West Chester

### Teacher Education

ELEMENTARY EDUCATION

SECONDARY EDUCATION

Comprehensive English

Foreign Languages
- French
- Russian
- German
- Spanish
- Latin

Geography

Mathematics

Sciences
- Biology
- Chemistry
- Comprehensive Science
- Earth and Space Science
- Physics

Social Sciences
- Comprehensive Social Studies
- History

Speech and Theatre

HEALTH AND PHYSICAL EDUCATION

Health Education

Health and Physical Education

MUSIC EDUCATION

SPECIAL EDUCATION

Speech Pathology and Audiology

COOPERATIVE DEGREE PROGRAMS FOR:

Dental Hygienists

Public School Nurses

#### Special Certification Programs Offered

HEALTH AND PHYSICAL EDUCATION

Education for Safe Living

SPECIAL EDUCATION

Teaching the Mentally Retarded

Teaching the Physically Handicapped

### Arts and Sciences

ARTS AND LETTERS

Art

Foreign Languages
- French
- Russian
- German
- Spanish
- Latin

Literature

Philosophy

Speech Arts

Theatre Arts

SCIENCES

Biology

Chemistry

Physics

MATHEMATICS

MUSIC

B.A. Degree

B.Mus. Degree

SOCIAL AND BEHAVIORAL SCIENCES

Economics

Geography

History

Political Science

Psychology

Sociology–Anthropology

Social Welfare

BUSINESS ADMINISTRATION

INTERDISCIPLINARY PROGRAMS

American Studies

Latin–American Studies

Russian Studies

# West Chester State College: An Overview

WEST CHESTER is a multi-purpose college with a student body of more than 5,800 full-time undergraduates. Nearly one thousand additional undergraduates attend the College as part-time students and still another 1,600 are enrolled (mainly on a part-time basis) for graduate studies. West Chester is thus the second largest link in the system of fourteen institutions of higher learning which the Commonwealth owns and maintains for the youth of Pennsylvania. The College's objectives are to prepare teachers for Pennsylvania's public schools and to provide a liberal arts education for its youth.

West Chester traces its history back to the West Chester Academy, founded in 1812. Since then, an educational institution named West Chester has been in existence. The College has acquired its present dimensions through changes largely determined as the Commonwealth assumed increasing responsibility for the education of young Pennsylvanians. The Academy became West Chester State Normal School in 1871, West Chester State Teachers College in 1927, and West Chester State College in 1962. A program of graduate studies, begun in 1959 and offering the Master of Education degree in a number of fields, was enlarged in 1968 to include the Master of Arts and Master of Science degrees in several disciplines.

West Chester has expanded into North Campus and South Campus, where the new facilities of the School of Health and Physical Education are located. The widened educational resources of the College include the new Francis Harvey Green Library, with more than 250,000 volumes; a Learning Research Center, housing a modern laboratory school and a computer center; and the Schmucker Science Center. A complex of handsome, new high-rise residence

halls is now in use, and Lawrence Center, completed in 1965, provides modern dining halls, a student lounge and snack bar, and other facilities.

The total program at West Chester is comprehensive and designed to satisfy the intellectual, physical, and spiritual needs of all students. A wide span of extracurricular activities affords students opportunities to mingle purposefully with their colleagues and faculty, and to seek the fullest expression of their talents and capacities.

## Location of the College

The College is in West Chester, the county seat of Chester County. With a population of 16,700, West Chester is small enough to have the pleasant aspects of a tree-shaded American town, large enough to contain essential services and the substance of a vigorous community, and old enough to give the student first-hand touch with America's early history.

West Chester was settled largely by members of the Society of Friends in the early years of the eighteenth century. The town retains many charming traces of their culture. Today, West Chester is part of the rapidly growing suburban complex adjoining Philadelphia. Students have abundant opportunities to study local, county, and regional government in an era of dynamic change and growth.

The proximity of Philadelphia (25 miles to the east) and Wilmington (15 miles to the south) puts the libraries, museums, and other cultural and historical resources of the two cities in convenient range. West Chester is near Valley Forge, the Brandywine Battlefield, Longwood Gardens, and other historic attractions of Chester County. The College itself has a rich cultural program, including its All-Star Course, the William Pyle Philips Lecture Foundation series, and the recitals and concerts of its own School of Music.

## Degrees Offered

The Bachelor of Science in Education degree is given in four basic curricula—elementary, secondary, music education, and health and physical education—and in one area (speech pathology and audiology) of special education. Degree curricula for public school nurses and dental hygienists are also provided. The College has a program of courses designed to meet certification requirements in

the field of safety education and in the special education fields which train for the teaching of mentally retarded and physically handicapped children.

The liberal arts program leads to a Bachelor of Arts degree in arts and letters, social sciences, sciences, mathematics, and music; to the Bachelor of Music; and to the Bachelor of Science in business administration and in chemistry.

## Program for In-Service Teachers

West Chester also maintains an extensive two-track program for teachers in service. One phase is composed of late-afternoon, evening, and Saturday morning courses for those desiring to satisfy various professional needs, including certification requirements. The second phase is a graduate program.

## Admission to West Chester (Academic Year)

Candidates for admission must meet the following requirements:

1) Acceptable scholarship as evidenced by graduation from an approved secondary school or equivalent preparation as determined by the Credentials Evaluation Division of the Pennsylvania Department of Education. All candidates for admission must take the College Entrance Examination Board's Scholastic Aptitude Test and English Composition Achievement Test, or the tests given by the American College Testing Program.

2) Satisfactory character and personality traits as well as proper attitudes and interests as determined by the high school principal, guidance counselor, or another school official acquainted with the student.

3) Satisfactory health and physical condition as evidenced by a medical examination by the student's family physician.

4) Recommendations of one or more College staff members following a personal interview with the applicant.

5) For admission to special curricula, the College may require the candidate to take an appropriate aptitude test in the special field in order to obtain further evidence of ability to succeed.

Admission to the fall or spring semester involves a number of steps, the first of which is the filing of application forms which may be secured from the Office of Admissions.

## Housing

The majority of West Chester's undergraduate students live on campus. Upon admission, students who intend to reside at the College will need to make arrangements with the Dean of Men or the Dean of Women for their housing at the earliest opportunity.

## Obtaining Catalogues

The undergraduate annual and Summer Session catalogues may be obtained from the Director of Admissions. Catalogues for Graduate Studies during the academic year and the Graduate Summer Sessions may be obtained from the Office of Graduate Studies.

* ———————————

*The turn of a century—whether on the clock of history or in the annals of a nation, state, or an institution—is a moment to make man pause, wonder, and take new challenge. So it is with West Chester State College as it prepares for the observance of its Centennial Year (1871-1971). Ceremonies taking place during this spring's Alumni Day and Commencement weekend (May 22-23) will officially launch a year-long series of campus events which will mark the beginning of the College's second century.*

*And more than one student, as he strolls this summer across the now historic Quad, or rests against the trunk of one of West Chester's giant trees — long-favored spots for generations of the school's undergraduates — will mark the moment in his own particular way.*

# West Chester Undergraduate Summer Sessions

For nearly a century, West Chester has maintained a program of Summer Sessions and has been known to generations of teachers in the College's wide area of service as an ideal place for summer-time study.

West Chester, in 1877, held one of the first pioneering summer sessions for teachers in the nation. The month-long program, offering elocution, industrial drawing, and natural science at a cost of $30 for board and tuition, proved immensely popular and launched a summer institution that has grown with experience and the expansion of the College.

The 1971 Summer Sessions will be divided into a Pre Session of three weeks, a Regular Session of six weeks, and a Post Session of three weeks.

For undergraduate students, the schedule includes courses in both liberal arts and teacher education. For teachers in service, the summer program offers an opportunity to satisfy various professional needs, including certification requirements. A number of special offerings and workshops for in-service teachers are made available each summer.

In 1970, 1,569 attended the Pre Session, 2,041 the Regular Session, and 1,329 the Post Session.

## Social and Recreational Program

Summer study at West Chester is pursued under highly favorable conditions. The tree-shaded campus with its conveniently located buildings, provides a beautiful and restful environment. Various recreational activities include softball, tennis, and swimming. Social hours, when students meet informally with faculty members, are a feature of the Pre and Post Sessions. Philadelphia, with its historic and scenic interest and its full summer program of art, music, and theater, is a distinct attraction. New York and Atlantic City are within easy access, and the famed fountains and beautiful outdoor theater at Longwood Gardens are only a few miles from the campus.

# Registration Requirements

## The Pre-Registration Procedure

*Registration in any Summer Session does not establish priority or privilege for admission as a student for the regular academic year.*

*Graduation from an approved secondary school or its equivalent is a basic requirement to attendance at West Chester Summer Sessions.*

Present and former West Chester students need not obtain permission to register at West Chester Summer Sessions. They simply follow the Pre–Registration Procedure described below.

All other applicants must obtain permission to register from the Director of Admissions at least one week before the close of each Pre–Registration period. (See calendar at front for dates.)

**Students currently attending another college** must also have an approval of attendance at West Chester from their own Dean of Instruction. (See "Students from Other Colleges" below.)

### Pre–Registration Procedure

Application for admission to any or all of the Summer Sessions is made by completing and submitting to the Director of Admissions the pre-registration information forms contained in this catalogue, or available from the Office of Admissions. (Students currently enrolled at West Chester may submit the forms directly to the office of the Dean of Undergraduate Studies.) Once these forms are submitted, no further application procedure is required until the date of registration when all students report to Lawrence Center.

### Students from Other Colleges

Students currently enrolled in other colleges must file with their pre-registration forms an approval-of-attendance statement from the Dean of Instruction of their own college. No pre-registration forms will be accepted without such a statement.

# Summer Sessions
# Fees and Expenses

Fees are subject to change without notice. All charges for a session must be paid on the day of registration.

## Basic Fee (Pennsylvania Residents)

(Check or money order payable to Commonwealth of Pennsylvania)

$26 per semester hour of credit.
Minimum Fee for Regular Session: $78
Minimum Fee for Pre or Post Session: $39

## Basic Fee (Out-of-State Students)

$43 per semester hour of credit.
Minimum Fee for Regular Session: $129
Minimum Fee for Pre or Post Session: $64.50

## Housing Fee (Room and Meals)

Regular Session: $120
Pre or Post Session: $60

No reduction is made for absences of a few days. At the discretion of the College, a student may occupy a double room by paying an additional $12 for the Regular Session or $6 for the Pre or Post Session.

Charges for separate meals are: breakfast 65 cents, lunch 85 cents, dinner $1.25.

## Special Fee (Health and Physical Education)

In addition to the basic fee, health and physical education majors pay a special fee of $3 for the specialized health and physical education courses.

## Special Fee (Music)

In addition to the basic fee, Regular Session students in any of the three music curricula pay special fees based on the college-semester music fee of $45.

### Rental and Practice Fees for Music Majors

*Pipe Organ for Practice*
Regular Session: $12
Pre or Post Session: $6

*Rental of Orchestral Instruments*
Regular Session: $2
Pre or Post Session: $1
(No charge for piano for practice.)

## Private Music Instruction Fee For All Other Curricula

Non-music majors who elect private instruction (two half-hour lessons per week) in piano, organ, voice, or an instrument pay an applied-music fee of $45 for Regular Session. Practice and rental charges: same as for music majors except for $2 fee for a practice piano in Regular Session and $1 fee in Pre or Post Session.

### Late Registration Fee

A fee of $10 is required of students who register after the pre-registration period or after registration day for any of the three sessions. The Tuesday after each registration day is the last day to register for each session and will be counted as Late Registration.

### Books

Books (available at the College Bookstore) must be purchased. The cost varies, but averages about $10 per course.

### Student Activities Fee

(Check or money order payable to Intracollegiate Governmental Association)
Regular Session: $3.50
Pre or Post Session: $1.75

### Resident Council Dues (Men)

(Check or money order payable to Intracollegiate Governmental Association)
Dues of $1 are charged men students living in residence halls during the Regular Session (50 cents for the Pre or Post Session).

## Refunds

For the Summer Sessions, refunds will not be made to students who voluntarily withdraw or are indefinitely suspended or dismissed from the College; these regulations apply after the first day of class attendance.

In cases of personal illness, certified by an attending physician, or for other emergency reasons which may be approved by the Trustees, the College will refund the portion of the basic fees for the part of the Session which the student does not spend in the College.

# General Information

## Housing

Housing in the men's and women's residence halls is available to students for any or all of the Sessions. After filing his application for admission, a student who wishes to reside on campus must make written application for room reservations, either to the Dean of Women or Dean of Men, at least one week prior to the opening of a Session. Rooms may be occupied between 7 p.m. and 9 p.m. on the Sunday preceding the Session.

The College has no housing accommodations for married couples or families.

## Placement and Career Services

The College maintains an active Placement and Career Service for its students. Excellent opportunities for employment in teaching and other careers are offered to graduates and graduating seniors without cost and counseling in career planning is available to all students.

## Opportunities for Employment and Loans

Students who desire part-time or hourly work in the community or on campus should communicate with the Director of Financial Aid to Students. Information about student loans is also furnished in his office.

## Cultural and Social Events

Among the varied cultural and recreational events offered in the summer months are trips to the Robin Hood Dell Concerts, excursions to Longwood Gardens, a campus cinema series, swimming, and tennis. Dances in Hollinger Field House, an All-College picnic for faculty and students, and a series of faculty–student coffee hours are additional attractions. The Summer Sessions Recreation Director may be consulted.

# Academic Information

## Credits

Credits for the summer sessions may be earned at the rate of one semester hour per week of work. Thus, a student attending all three sessions may earn twelve credits.

Students are not permitted to carry more than six semester hours of work in the Regular Session unless permission is secured in advance from the Dean of Undergraduate Studies.

## Reinstatement to Fall Semester

If a West Chester student does not attain the required scholastic index by the end of the spring semester, he may attend summer sessions at West Chester in order to improve his academic average. Unless he attains the required scholastic index by the end of the Summer Sessions, he will be dismissed from the College. If he achieves the required scholastic index, he will be notified by letter from the Office of Undergraduate Studies. He will not need to apply for readmission through the Office of Admissions.

## Academic Dismissal

The recommendations of the department chairman concerned and the Dean of Women or Dean of Men are considered when the question of a student's dismissal for academic reasons is under study.

Any student dismissed twice for academic reasons automatically terminates his degree candidacy at West Chester. Any courses taken as a non-degree student, following a second academic dismissal, shall not be included in his cumulative grade average, nor imply the right to readmission to the College.

## Withdrawal

1) All withdrawals from class must be initiated by the student, who must report his intention to withdraw to his instructor.

2) A student who finds it necessary to withdraw from a class must file letters with the Office of Undergraduate Studies and the Office

of Business Affairs, giving the date of last class attendance and the reason for withdrawal.

3) If a student withdraws from a class or classes without following the official procedures, his registration is continued until the end of the Summer Session, and he will receive an F grade in the course or courses pursued.

See also Fees and Expenses for refund policy regarding withdrawals.

## Course Changes After Registration Day

The Tuesday following each registration day of each Session will be set aside for course changes (fee of $5.00). All late changes must be made by this day. (Students desiring to change a course **prior** to registration day may do so with no fee incurred, provided the change is made before the pre-registration deadline of the particular Session.)

## Teacher Certification

**Instructional I Certificate.** A student who satisfactorily completes one of the teacher education curricula offered by the College receives his degree from the College and qualifies for an Instructional I Certificate (formerly described as a Provisional College Certificate) which is issued to him by the Pennsylvania Department of Education.

In the elementary field this certificate qualifies the holder to teach in the elementary schools of Pennsylvania for three years.

In the secondary field this certificate qualifies the holder to teach the subjects written thereupon in the secondary schools of Pennsylvania for three years.

In health and physical education, music education, foreign languages, and in speech pathology and audiology, the certificate qualifies the holder to teach the specified subject in both the elementary and secondary schools of Pennsylvania for three years.

**Instructional II Certificate.** The Permanent College Certificate requires three years of successful teaching in the public schools of Pennsylvania under the Instructional I Certificate and the satisfactory completion of 24 semester hours of additional work of collegiate

grade, completed subsequent to the issuance of the baccalaureate degree. This certificate is a permanent license to teach in Pennsylvania. When prepared for the Instructional II Certificate, teachers may obtain application instructions from superintendents of schools or county superintendents of schools.

## Extension of College Certificates

1) A college certificate valid for the secondary field may be extended to include the elementary field by completing the regular program designed by the College.
2) A college certificate valid for the elementary field may be extended to include any subject of the secondary field by completing the College's field requirement for it and the related methods course.
3) A college certificate valid for the secondary field may be extended to include additional academic subjects by completing the College's field requirements for them. (See Undergraduate Studies catalogue for further information.)

### Citizenship Requirement for Teachers

To be eligible for a teacher's certificate in Pennsylvania, a student must be a citizen of the United States. Exception is made for foreign languages, which citizens of other countries may be certified to teach on a three–year basis.

### College Regulations

The regulations which pertain to student procedure and conduct during the academic year at West Chester are also in effect for Summer Sessions.

## Enrollment

Each course offered for the Summer Sessions is contingent upon adequate enrollment and the judgment of the Dean of the School offering the course.

## Summer Graduation

Students who expect to graduate at the end of a Pre, Regular, or Post Session are urged to attend the spring Commencement exercises preceding Summer Sessions. It is the student's responsibility to notify the Office of Undergraduate Studies in person of his anticipated graduation and to see that his name, written as he desires, is placed upon the list of prospective graduates which the Office prepares.

## Class Meetings and Periods

In each of the three Summer Sessions, classes will be held on all weekdays except Saturdays, unless otherwise stated on schedules.

The class-absence policy for the academic year applies to the Summer Sessions.

Pre and Post Sessions. After registration day, each class meets twice daily, 8-9:30 a.m. and 10:30-12 Noon (unless otherwise indicated). The hour from 9:30-10:30 is for rest, library work, or recreation. It is not possible for a student to carry more than one course during either the Pre or Post Session since all courses meet concurrently.

Regular Session. Classes begin on Tuesday and meet once daily at the hours indicated under Regular Session Offerings.

The time and days of classes are subject to change by administrative decision.

# 1971 Pre-Registration and Registration

## PRE–REGISTRATION INSTRUCTIONS

All prospective Summer Session students must fill out the set of Pre-Registration forms enclosed in this catalogue. This material must be filled out in its entirety. Please supply all information requested, as well as the courses desired. Return the forms to the Office of Admissions.

Pre-registration for the Pre Session will terminate Thursday, May 27. Pre-registration for the Regular and Post Sessions will terminate **two Fridays** prior to their General Registration and Payment dates, as follows:

| Pre-Registration Deadlines | | | General-Registration and-Payment Dates | |
|---|---|---|---|---|
| Pre: | Thursday, May 27 | → | Pre: | June 7 |
| Regular: | Friday, June 18 | → | Regular: | June 28 |
| Post: | Friday, July 30 | → | Post: | August 9 |

Students who fail to furnish Pre-Registration Information forms to the College by the Pre-Registration deadlines will be subject to a Late Pre-Registration fee of $10.

There will be a change-of-course fee of $5 on Registration Day for any change of course made after the Pre-Registration deadline.

*All Summer Session fees are due and payable on the Registration dates. The payment-by-mail system employed for the academic year does not pertain to Undergraduate Summer Sessions. Payments must be made at Summer Registrations.*

## REGISTRATION INSTRUCTIONS

**Place of registration: Lawrence Center**
**Proceed from station to station in order shown**

### Station I. Foyer

1. Secure calendar for session.
2. Secure classroom assignment sheet.

## Station II. Northeast Dining Room

1. When you enter, secure registration materials.
2. Undergraduate Table—Change of Course or Late Registration

   a) If you wish to change or drop a course, report here.

   b) If you have not pre-registered, report here.

3. Scheduling and Academic Records Table

   a) If you are a senior planning to graduate in August, 1971, sign here for diplomas. (Please designate graduation date as Pre, Regular, or Post Session.)

   b) If you are a senior in Teacher Education planning to graduate in August, 1971, secure applications for your Instructional I Certificate.

   c) If you receive Veterans' benefits, secure form here.

   d) If you wish to have credits transferred to another college, secure special form here.

4. Fill out your registration materials at designated writing tables.
5. Dean of Men's and Dean of Women's Table

   a) Mark your status (resident, commuting, or independent housing).

   b) If you are a residence hall student, obtain your room assignment and write it on your registration form. (Note that all residence hall students must take their meals in the College dining hall.)

6. Checking Table
   a) Registration cards will be checked here for accuracy and collected.
   b) Proceed to Station III.

## Station III. Northwest Dining Room

1. Pay basic fee and room-and-board fee.
2. Automobile Regulations Station

   a) Obtain automobile decals here. (This applies to both commuting and resident students.)

3. Student Activities Fee Table

   a) Pay your student activities fee. Please have your check made out, ready to submit. Make it payable to "Intracollegiate Governmental Association." Fees are $1.75 for Pre or Post Session and $3.50 for Regular Session.

# Pre Session

**Monday, June 7 through Friday, June 25**

**Each class meets 8-9:30 a.m. and 10:30-12 Noon [unless otherwise shown]**

See Undergraduate Studies catalogue for course descriptions. Course listings are correlated with the 1970-71 catalogue. NEW indicates a course not described in the catalogue.

Offerings listed are contingent upon sufficient enrollment.

## SCHOOL OF ARTS AND LETTERS

| Course Number | | Course Title | Credits |
|---|---|---|---|
| | | **Art** | |
| Art | 101 | Fine Arts [Art] | 3 |
| | | **English** | |
| Eng | 101 | English Composition I | 3 |
| Eng | 201 | Introduction to Linguistics [also Lin 201] | 3 |
| Lit | 121 | General Literature I | 3 |
| Lit | 223 | American Literature I | 3 |
| Lit | 225 | English Literature I | 3 |
| Lit | 333 | Shakespeare I | 3 |
| Lit | 350 | Children's Literature | 3 |
| | | **Foreign Languages** | |
| Lin | 201 | Introduction to Linguistics [also Eng 201] (Lin 201 replaces Lan 340) | 3 |
| Lin | 360 | Philosophy of Language [also Phi 360] (Lin 360 replaces Lan 360) | 3 |
| | | **Philosophy** | |
| Phi | 280 | Introduction to Philosophy | 3 |
| Phi | 360 | Philosophy of Language [also Lin 360] | 3 |
| Phi | 485 | Contemporary Philosophy | 3 |
| | | **Speech and Theatre** | |
| Sph | 101 | Fundamentals of Speaking | 2 |
| Sph | 103 | Discussion | 3 |
| SpP | 170 | Speech and Language Development | 3 |
| SpP | 201 | Introduction to Speech Problems | 3 |

## SCHOOL OF EDUCATION

| | | | |
|---|---|---|---|
| EdA | 344 | Problems in Special Education (7 p.m.) | 2 |
| EdA | 350 | The Academically Superior Child (7 p.m.) | 3 |
| EdE | 332 | Teaching Social Studies in the Elementary School | 3 |
| EdE | 401 | Current Trends in Elementary Education (01) | 2 |
| EdE | 401 | Current Trends in Elementary Education (02) | 2 |
| EdF | 100 | School and Society | 3 |
| EdM | 300 | Audio–Visual Education | 2 |
| EdP | 250 | Psychology of Learning and Development (01) | 3 |
| EdP | 250 | Psychology of Learning and Development (02) | 3 |
| EdU | 360 | The Disadvantaged Child (7 p.m.) | 3 |

## SCHOOL OF HEALTH AND PHYSICAL EDUCATION

### Physical Education

| | | | |
|---|---|---|---|
| PEd | 361 | Tests, Measurements, and Statistics in Health and Physical Education (7 p.m.) | 3 |
| PEd | 390 | Physical Disabilities of Childhood (7 p.m.) | 2 |
| PEd | 481 | Education for Safe Living (7 p.m.) | 3 |
| PEd | 482 | Principles and Practices of Driver Education and Traffic Safety (7 p.m.) | 3 |

## SCHOOL OF MUSIC

| | | | |
|---|---|---|---|
| Mus | 121 | Fine Arts [Music] | 3 |
| Mus | 221 | Music in Western Civilization I | 3 |
| Mus | 231 | Music for the Primary Grades | 3 |

## SCHOOL OF SCIENCES AND MATHEMATICS

### Biology

| | | | |
|---|---|---|---|
| Bio | 100 | Basic Biological Science<br>(Lab 1:00 to 3:00 Mon. thru Thurs.) | 4 |
| Bio | 242 | Ornithology | 3 |
| Bio | 261 | Human Anatomy<br>(Lab 1:00 to 3:00 Mon. thru Thurs.) | 4 |
| Bio | 301 | Genetics<br>(Lab 1:00 to 3:00 Tues. thru Thurs.) | 4 |

### Chemistry

| | | | |
|---|---|---|---|
| Che | 100 | Principles of Chemistry<br>(Lab 1:00 to 3:00 Mon. thru Thurs.) | 4 |

### Earth, Space, and General Sciences

| | | | |
|---|---|---|---|
| ESS | 111 | General Astronomy<br>(Lab 1:00 to 3:00 Mon. thru Thurs.) | 4 |
| Sci | 250 | Science for the Elementary Grades | 3 |
| Sci | 350 | Teaching Science in Secondary Schools | 3 |

### Mathematics

| | | | |
|---|---|---|---|
| Mat | 101 | Introduction to College Mathematics I (01)<br>(Majors other than Elementary) | 3 |

[Continued]

| | | | |
|---|---|---|---|
| Mat | 101 | Introduction to College Mathematics I (02)<br>(Elementary majors only) | 3 |
| Mat | 107 | Mathematics for the Management Sciences I | 3 |
| Mat | 141 | Calculus I (Science majors only) | 3 |
| Mat | 350 | Teaching Mathematics in Secondary Schools | 3 |
| Mat | 351 | Teaching Mathematics in Elementary Schools | 3 |

### Nursing

| | | | |
|---|---|---|---|
| PSN | 302 | Public Health Nursing I (7:00–10:00 p.m.) | 3 |
| PSN | 304 | Foundations of Nutrition (4:30–7:30) | 3 |

### Physics

| | | | |
|---|---|---|---|
| Sci | 150 | Basic Physical Science<br>(Lab 1:00 to 3:00 Mon. thru Thurs.) | 4 |

## SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

### Anthropology

| | | | |
|---|---|---|---|
| Ant | 231 | Introduction to Anthropology | 3 |

### Business

| | | | |
|---|---|---|---|
| BAc | 201 | Principles of Accounting I | 3 |

### Economics

| | | | |
|---|---|---|---|
| Eco | 201 | Principles of Economics—Survey | 3 |
| Eco | 231 | Principles of Economics I | 3 |
| Eco | 349 | Economics of Poverty<br>NEW | 3 |

### Geography

| | | | |
|---|---|---|---|
| Geo | 101 | World Geography | 3 |
| Geo | 202 | Geography of U.S. and Canada | 3 |
| Geo | 210 | Geographic Influences in American History | 3 |

### History

| | | | |
|---|---|---|---|
| His | 101 | History of Civilization I | 3 |
| His | 102 | History of Civilization II | 3 |
| His | 211 | History of United States I | 3 |
| His | 212 | History of United States II | 3 |
| His | 220 | Renaissance and Reformation | 3 |

### Political Science

| | | | |
|---|---|---|---|
| PSc | 231 | American Government | 3 |
| PSc | 351 | The Politics of the Non-Western Areas | 3 |

### Psychology

| | | | |
|---|---|---|---|
| Psy | 100 | Introduction to Psychology | 3 |
| Psy | 352 | Child and Adolescent Psychology | 3 |
| Psy | 354 | Social Psychology | 3 |

### Sociology

| | | | |
|---|---|---|---|
| Soc | 231 | Introduction to Sociology | 3 |
| SWo | 200 | Introduction to Social Work<br>NEW | 3 |

# Regular Session

**Monday, June 28 through Friday, August 6**

**Classes meet daily, Monday through Friday, unless otherwise indicated.**

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See Undergraduate Studies catalogue for course descriptions. Course listings are correlated with the 1970-71 catalogue. NEW indicates a course not described in the catalogue.

Offerings listed are contingent upon sufficient enrollment.

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## SCHOOL OF ARTS AND LETTERS

### Art

**8:00–9:30 a.m.**

| | | |
|---|---|---|
| Art 101 | Fine Arts [Art] (01) | 3 |
| Art 106 | Drawing I: Perspective, Proportion, Composition | 3 |
| Art 111 | Design I: Color Theory and Two-Dimensional Techniques | 3 |
| Art 266 | Crafts: Three-Dimensional Media for Elementary Education | 3 |

**9:30–11:00 a.m.**

| | | |
|---|---|---|
| Art 221 and Art 222 | Sculpture I: Subtractive Techniques **or** Sculpture II: Additive Techniques | 3 |
| Art 241 | Graphics I | 3 |
| Art 251 | Art in the Elementary School I | 3 |
| Art 402 | Aesthetics: Contemporary Art Forms | 3 |

**11:00 a.m.–12:30 p.m.**

| | | |
|---|---|---|
| Art 101 | Fine Arts [Art] (02) | 3 |
| Art 216 | Painting I: Fundamental Techniques—Basic Composition | 3 |
| Art 231 and Art 232 | Ceramics I: Basic Techniques and Glaze Calculation **or** Ceramics II: Intermediate Techniques and Glaze Calculation | 3 |
| Art 403 | Primitive Art | 3 |

## English

**8:00–9:30 a.m.**

| | | | |
|---|---|---|---|
| Eng | 101 | English Composition I (01) | 3 |
| Eng | 102 | English Composition II (01) | 3 |
| Eng | 315 | Modern English Grammar | 3 |
| Lit | 121 | General Literature I (01) | 3 |
| Lit | 122 | General Literature II (01) | 3 |

**9:30–11:00 a.m.**

| | | | |
|---|---|---|---|
| Eng | 102 | English Composition II (02) | 3 |
| Eng | 309 | Contrastive Analysis and Linguistic Interference NEW | 3 |
| Eng | 314 | History of Language | 3 |
| Eng | 316 | Teaching English in Secondary Schools | 3 |
| Eng | 319 | American English | 3 |
| Lit | 122 | General Literature II (02) | 3 |
| and | | | |
| Lit | 127 | (02) | |
| Lit | 224 | American Literature II | 3 |
| Lit | 372 | Development of the American Novel | 3 |
| Lit | 373 | Modern British Novel | 3 |

**11:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| Eng | 101 | English Composition I (02) | 3 |
| Eng | 201 | Introduction to Linguistics [also Lin 201] | 3 |
| Lit | 121 | General Literature I (02) | 3 |
| Lit | 127 | General Literature for English Majors (01) | 3 |
| Lit | 226 | English Literature II | 3 |
| Lit | 334 | Shakespeare II | 3 |
| Lit | 348 | Short Story | 3 |
| Lit | 350 | Children's Literature | 3 |
| Lit | 381 | Modern Poetry II | 3 |

**12:30–2:00 p.m.**

| | | | |
|---|---|---|---|
| Eng | 000 | English Composition [Remedial] | 0 |

## Foreign Languages

**8:00–9:30 a.m.**

| | | | |
|---|---|---|---|
| Fre | 201 | Intermediate French I | 3 |
| Ger | 101 | Elementary German I | 3 |
| Spa | 201 | Intermediate Spanish I | 3 |

**9:30–11:00 a.m.**

| | | | |
|---|---|---|---|
| Fre | 101 | Elementary French I | 3 |
| Ger | 201 | Intermediate German I | 3 |
| Spa | 101 | Elementary Spanish I | 3 |

**11:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| Lin | 201 | Introduction to Linguistics [also Eng 201] (replaces Lan 340) | 3 |

## Philosophy

**8:00–9:30 a.m.**

| | | | |
|---|---|---|---|
| Phi | 280 | Introduction to Philosophy (01) | 3 |
| Phi | 462 | Chinese and Japanese Thought | 3 |

**9:30–11:00 a.m.**

| | | | |
|---|---|---|---|
| Phi | 280 | Introduction to Philosophy (02) | 3 |
| Phi | 490 | Logic | 3 |

**11:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| Phi | 484 | American Philosophy | 3 |

## Speech and Theatre

**8:00–9:30 a.m.**

| | | | |
|---|---|---|---|
| Sph | 101 | Fundamentals of Speaking (01) | 2 |

**9:30–11:00 a.m.**

| | | | |
|---|---|---|---|
| Sph | 101 | Fundamentals of Speaking (02) | 2 |
| Sph | 106 | Phonetics | 3 |
| SpP | 201 | Introduction to Speech Problems | 3 |
| ThA | 300 | The Art of Oral Reading for Teachers<br>NEW | 3 |

## SCHOOL OF EDUCATION

| | | | |
|---|---|---|---|
| EdE | 411 | Student Teaching [Elementary Majors] (June 28–August 6)<br>(Application should be filed prior to Moy 1) | 6 |

**8:00–9:30 a.m.**

| | | | |
|---|---|---|---|
| EdA | 241 | Psychology of Exceptional Children (01) | 3 |
| EdE | 251 | Human Development: Childhood (01) | 3 |
| EdE | 332 | Teaching Social Studies in the Elementary School (01) | 3 |
| EdE | 401 | Current Trends in Elementary Education (01) | 2 |
| EdE | 403 | Early Childhood Education I | 3 |
| EdE | 441 | Workshop in Elementary Education (8:00 to 11:00 a.m.)<br>(See "Workshops/Other Special Offerings") | 4 |
| EdF | 100 | School and Society (01) | 3 |
| EdM | 300 | Audio–Visual Education (01) | 2 |
| EdO | 420 | Organization and Administration of Outdoor Education | 3 |
| EdP | 250 | Psychology of Learning and Development (01) | 3 |
| EdS | 306 | Field Experience in Secondary Education | 3 |

**9:30–11:00 a.m.**

| | | | |
|---|---|---|---|
| EdA | 241 | Psychology of Exceptional Children (02) | 3 |
| EdE | 251 | Human Development: Childhood (02) | 3 |
| EdE | 309 | Language Arts in the Elementary School (01) (9:30 to 12:30) | 6 |
| EdE | 309 | Language Arts in the Elementary School (02) (9:30 to 12:30) | 6 |
| EdE | 309 | Language Arts in the Elementary School (03) (9:30 to 12:30) | 6 |
| EdE | 319 | Reading in the Elementary School (Open only by permission. See Dr. Charlotte E. King, Chairman, Department of Elementary Education.) | 3 |
| EdE | 332 | Teaching Social Studies in the Elementary School (02) | 3 |
| EdF | 100 | School and Society (02) | 3 |
| EdM | 300 | Audio–Visual Education (02) | 2 |
| EdP | 250 | Psychology of Learning and Development (02) | 3 |
| EdP | 351 | Evaluation and Measurement (01) | 2 |

**11:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| EdC | 150 | Introduction to Guidance and Counseling | 3 |
| EdE | 317 | Oral and Written Expression in the Elementary School (Open only by permission. See Dr. Charlotte E. King, Chairman, Department of Elementary Education.) | 3 |
| EdE | 401 | Current Trends in Elementary Education (02) | 2 |
| EdE | 404 | Early Childhood Education II | 3 |
| EdF | 100 | School and Society (03) | 3 |
| EdP | 250 | Psychology of Learning and Development (03) | 3 |
| EdP | 351 | Evaluation and Measurement (02) | 2 |

## SCHOOL OF HEALTH AND PHYSICAL EDUCATION

### Health Education

**8:00–9:30 a.m.**

| | | |
|---|---|---|
| HEd 350 | Health for the Elementary Grades (01) | 3 |
| HEd 451 | Community and School Health Education Workshop (June 28–July 16) (See "Workshops/Other Special Offerings") | 3 |
| HEd 452 | Mental Health Workshop (July 19–August 6) (See "Workshops/Other Special Offerings") | 3 |

**9:30–11:00 a.m.**

| | | |
|---|---|---|
| HEd 150 | Health | 2 |
| HEd 350 | Health for the Elementary Grades (02) | 3 |
| HEd 352 | Methods and Materials in Health Education | 2 |
| HEd 400 | Family Life and Sex Education Workshop (June 28–August 6) (See "Workshops/Other Special Offerings") | 3 |

**11:00–12:00 Noon**

| | | |
|---|---|---|
| HEd 353 | First Aid for Teachers | 2 |

### Physical Education

**8:00–9:30 a.m.**

| | | |
|---|---|---|
| PEd 482 | Principles and Practices of Driver Education and Traffic Safety (01) | 3 |
| PEd 483 | Preparation for Teaching Driver and Traffic Safety Education (01) | 3 |

**9:30–11:00 a.m.**

| | | |
|---|---|---|
| PEd 482 | Principles and Practices of Driver Education and Traffic Safety (02) | 3 |
| PEd 483 | Preparation for Teaching Driver and Traffic Safety Education (02) | 3 |

**11:00 a.m.–12:30 p.m.**

| | | |
|---|---|---|
| PEd 463 | (Women) Principles of Coaching | 2 |
| PEd 464 | (Men) Principles of Coaching | 2 |

**11:30 a.m.–12:30 p.m.**

| | | |
|---|---|---|
| PEd 101 | Physical Activities I | 1 |
| PEd 102 | Physical Activities II | 1 |

**12:30–1:30 p.m.**

| | | |
|---|---|---|
| PEd 201 | Practice and Theory in Elementary Physical Education | 1 |
| PEd 341 | Modern Dance I | 1 |

## SCHOOL OF MUSIC

**8:00–9:30 a.m.**

| | | | |
|---|---|---|---|
| Mus | 112 | Theory of Music I | 3 |
| Mus | 113 | Theory of Music II (formerly Mus 211) | 3 |
| Mus | 121 | Fine Arts [Music] | 3 |
| Mus | 213 | Theory of Music IV (formerly Mus 311) | 3 |
| Mus | 214 | Aural Activities III<br>NEW | 2 |
| Mus | 224 | Keyboard Literature I | 2 |
| Mus | 226 | Art Song I | 2 |
| Mus | 231 | Music for the Primary Grades | 3 |

**9:30–11:00 a.m.**

| | | | |
|---|---|---|---|
| Mus | 222 | Music in Western Civilization II | 3 |

**11:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| CCo | 212 | Advanced Choral Conducting | 2 |
| Mus | 114 | Aural Activities I<br>NEW | 2 |
| Mus | 115 | Aural Activities II<br>NEW | 2 |
| Mus | 212 | Theory of Music III | 3 |
| Mus | 215 | Aural Activities IV<br>NEW | 2 |
| SyO | 111-412 | Symphony Orchestra | ½ |

**2:00–3:00 p.m.**

| | | | |
|---|---|---|---|
| Cho | 311-412 | Choir | ½ |
| ICo | 311 | Instrumental Conducting | 2 |
| MxC | 111-412 | Mixed Chorus | ½ |

**3:00–4:00 p.m.**

| | | | |
|---|---|---|---|
| CMB | 111-412 | Concert Band | ½ |

**By Appointment**

| | | | |
|---|---|---|---|
| Pia | 001 | Class Instruction in Minor Performance Area (Piano)<br>NEW | ½ |

Private Instruction in Piano, Organ, Voice, and Instruments. (Contact School of Music for details.)

## SCHOOL OF SCIENCES AND MATHEMATICS

### Biology

**8:00–9:30 a.m.**

| | | | |
|---|---|---|---|
| Bio | 100 | Basic Biological Science<br>(Lab 1:00 to 3:00 Tues. and Thurs.) | 4 |

**9:30–11:00 a.m.**

| | | | |
|---|---|---|---|
| Bio | 262 | Human Physiology<br>(Lab 1:00 to 3:00 Tues. and Thurs.) | 4 |

### Chemistry

**8:30–10:30 a.m.**

| | | | |
|---|---|---|---|
| Che | 103 | General Chemistry I (June 28–July 23)<br>(Lab 12:00 to 3:00 Mon. thru Thurs.) | 4 |
| Che | 104 | General Chemistry II (July 26–August 20)<br>(Lab 12:00 to 3:00 Mon. thru Thurs.) | 4 |

**9:30–11:30 a.m.**

| | | | |
|---|---|---|---|
| Che | 341 | Physical Chemistry I (June 28–July 23)<br>(Lab 12:30 to 3:30 Mon. thru Thurs.) | 4 |
| Che | 342 | Physical Chemistry II (July 26–August 20)<br>(Lab 12:30 to 3:30 Mon. thru Thurs.) | 4 |

**10:30 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| Che | 231 | Organic Chemistry I (June 28–July 16)<br>(NO LAB) | 3 |
| Che | 232 | Organic Chemistry II (July 19–August 13)<br>(Lab 1:00 to 4:00 Mon. thru Thurs.) | 4 |

**11:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| Che | 230 | Introduction to Organic Chemistry<br>(Lab 1:00 to 4:00 Tues. and Thurs.) | 4 |

**11:30 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| Che | 321 | Quantitative Analysis<br>(Lab 1:00 to 4:00 Mon. thru Thurs.) | 4 |

### Earth, Space, and General Sciences

**8:00–9:30 a.m.**

| | | | |
|---|---|---|---|
| ESS | 111 | General Astronomy<br>(Lab 1:00 to 3:00 Mon. and Wed.) | 4 |
| ESS | 230 | Introduction to Oceanography<br>(Lab 1:00 to 3:00 Mon. and Wed.) | 4 |
| Sci | 250 | Science for the Elementary Grades (01) | 3 |

**9:30–11:00 a.m.**

| | | | |
|---|---|---|---|
| ESS | 101 | Earth Science<br>(Lab 1:00 to 3:00 Tues. and Thurs.) | 4 |

**11:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| ESS | 211 | Historical Geology<br>(Lab 1:00 to 3:00 Tues. and Thurs.) | 4 |
| Sci | 250 | Science for the Elementary Grades (02) | 3 |

## Mathematics

**8:00–9:30 a.m.**

| | | | |
|---|---|---|---|
| Mat | 101 | Introduction to College Mathematics I (01) (Majors other than Elementary) | 3 |
| Mat | 105 | College Algebra and Trigonometry | 3 |
| Mat | 106 | Foundations of Mathematics | 3 |
| Mat | 331 | Geometry for Elementary Teachers | 3 |

**9:30–11:00 a.m.**

| | | | |
|---|---|---|---|
| Mat | 101 | Introduction to College Mathematics I (02) (Elementary majors only) | 3 |
| Mat | 142 | Calculus II | 3 |
| Mat | 411 | Modern Algebra I | 3 |
| CSc | 101 | Introduction to Computers | 3 |

**11:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| Mat | 108 | Mathematics for the Management Sciences II | 3 |
| Mat | 121 | Statistics | 3 |
| Mat | 211 | Linear Algebra | 3 |
| Mat | 351 | Teaching Mathematics in Elementary Schools | 3 |
| Mat | 421 | Mathematical Statistics I | 3 |

## Nursing

**9:00–12:00 Noon**

| | | | |
|---|---|---|---|
| Nsg | 480 | Vision Problems in Children (June 28–July 16) NEW (For further information write to Department of Nursing) | 3 |

**9:30–11:00 a.m.**

| | | | |
|---|---|---|---|
| PSN | 303 | Public Health Nursing II | 3 |

**11:00–12:00 Noon**

| | | | |
|---|---|---|---|
| PSN | 300 | Public School Nursing | 2 |

## Physics

**8:00–9:30 a.m.**

| | | | |
|---|---|---|---|
| Phy | 212 | Mechanics | 3 |

**8:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| Phy | 103 | General Physics I (June 28–July 23) (See note under Phy 104) | 4 |
| Phy | 104 | General Physics II (July 26–August 20) (Phy 103 and 104 do not meet the requirements for Physics and Mathematics majors) | 4 |

**11:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| Sci | 150 | Basic Physical Science (Lab 1:00 to 3:00 Tues. and Thurs.) | 4 |

## SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

### Anthropology

**11:00 a.m.–12:30 p.m.**

| | | |
|---|---|---|
| Ant 231 | Introduction to Anthropology | 3 |

### Business

**8:00–9:30 a.m.**

| | | |
|---|---|---|
| BAc 201 | Principles of Accounting I | 3 |

**9:30–11:00 a.m.**

| | | |
|---|---|---|
| BAd 201 | Business Organization and Management | 3 |

**11:00 a.m.–12:30 p.m.**

| | | |
|---|---|---|
| BAc 202 | Principles of Accounting II | 3 |

### Economics

**8:00–9:30 a.m.**

| | | |
|---|---|---|
| Eco 232 | Principles of Economics II | 3 |

**9:30–11:00 a.m.**

| | | |
|---|---|---|
| Eco 333 | Consumer Economics | 3 |

**11:00 a.m.–12:30 p.m.**

| | | |
|---|---|---|
| Eco 343 | Comparative Economics since 1930 | 3 |

### Geography

**8:00–9:30 a.m.**

| | | |
|---|---|---|
| Geo 101 | World Geography | 3 |
| Geo 315 | Aerial Photographic Interpretation | 3 |

**9:30–11:00 a.m.**

| | | |
|---|---|---|
| Geo 305 | Geography of the Far East | 3 |
| Geo 314 | Geography of U.S. and Pennsylvania | 3 |

**11:00 a.m.–12:30 p.m.**

| | | |
|---|---|---|
| Geo 201 | Conservation of Natural Resources | 3 |
| Geo 308 | Trade and Transportation | 3 |

### History

**8:00–9:30 a.m.**

| | | |
|---|---|---|
| His 101 | History of Civilization I (01) | 3 |
| His 102 | History of Civilization II (01) | 3 |
| His 211 | History of the United States I (01) | 3 |
| His 339 | History of the Afro–American | 3 |

**9:30–11:00 a.m.**

| | | |
|---|---|---|
| His 102 | History of Civilization II (02) | 3 |
| His 212 | History of United States II | 3 |
| His 334 | History of Latin America since 1825 | 3 |

**11:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| His | 101 | History of Civilization I (02) | 3 |
| His | 211 | History of the United States I (02) | 3 |
| His | 313 | History of Pennsylvania | 3 |
| SSc | 331 | Teaching Social Studies in Secondary Schools | 3 |

## Political Science

**8:00–9:30 a.m.**

| | | | |
|---|---|---|---|
| PSc | 231 | American Government (01) | 3 |

**9:30–11:00 a.m.**

| | | | |
|---|---|---|---|
| PSc | 231 | American Government (02) | 3 |
| PSc | 334 | American Political Parties | 3 |

**11:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| PSc | 231 | American Government (03) | 3 |

## Psychology

**8:00–9:30 a.m.**

| | | | |
|---|---|---|---|
| Psy | 100 | Introduction to Psychology (01) | 3 |

**9:30–11:00 a.m.**

| | | | |
|---|---|---|---|
| Psy | 100 | Introduction to Psychology (02) | 3 |
| Psy | 375 | Abnormal Psychology | 3 |

**11:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| Psy | 354 | Social Psychology | 3 |
| Psy | 356 | The Study of Personality | 3 |

## Sociology

**8:00–9:30 a.m.**

| | | | |
|---|---|---|---|
| Soc | 231 | Introduction to Sociology (01) | 3 |
| Soc | 332 | Contemporary Social Problems | 3 |
| SWo | 420 | Field Experience in Social Welfare I<br>NEW | 3 |

**9:30–11:00 a.m.**

| | | | |
|---|---|---|---|
| Soc | 333 | The Family | 3 |
| Soc | 338 | Criminology | 3 |

**11:00 a.m.–12:30 p.m.**

| | | | |
|---|---|---|---|
| Soc | 231 | Introduction to Sociology (02) | 3 |
| SWo | 320 | Principles and Methods of Social Work<br>NEW | 3 |

# Post Session

**Monday, August 9 through Friday, August 27**

**Each class meets 8:00–9:30 a.m. and 10:30–12 Noon [unless otherwise shown]**

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See Undergraduate Studies catalogue for course descriptions. Courses listings are correlated with the 1970-71 catalogue. NEW indicates a course not described in the catalogue.

Offerings listed are contingent upon sufficient enrollment.

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## SCHOOL OF ARTS AND LETTERS

### Art

| | | | |
|---|---|---|---|
| Art | 101 | Fine Arts [Art] | 3 |

### English

| | | | |
|---|---|---|---|
| Eng | 000 | English Composition [Remedial] (12:30 p.m.) | 0 |
| Eng | 101 | English Composition I | 3 |
| Lit | 121 | General Literature I | 3 |
| Lit | 122 | General Literature II | 3 |
| Lit | 224 | American Literature II | 3 |
| Lit | 226 | English Literature II | 3 |
| Lit | 338 | Modern Irish Literature | 3 |
| Lit | 348 | Short Story | 3 |
| Lit | 350 | Children's Literature | 3 |

### Foreign Languages

| | | | |
|---|---|---|---|
| Fre | 102 | Elementary French II | 3 |
| Fre | 202 | Intermediate French II | 3 |
| Ger | 102 | Elementary German II | 3 |
| Ger | 202 | Intermediate German II | 3 |
| Spa | 102 | Elementary Spanish II | 3 |
| Spa | 202 | Intermediate Spanish II | 3 |

### Philosophy

| | | | |
|---|---|---|---|
| Phi | 280 | Introduction to Philosophy | 3 |
| Phi | 380 | Ethics | 3 |

### Speech and Theatre

| | | | |
|---|---|---|---|
| Sph | 100 | Bases of Speech | 3 |
| Sph | 101 | Fundamentals of Speaking | 2 |

## SCHOOL OF EDUCATION

| | | | |
|---|---|---|---|
| EdA | 243 | Psychology of the Mentally Retarded | 3 |
| EdE | 332 | Teaching Social Studies in the Elementary School | 3 |
| EdE | 401 | Current Trends in Elementary Education | 2 |
| EdF | 100 | School and Society | 3 |
| EdM | 300 | Audio-Visual Education | 2 |
| EdO | 410 | Methods of Conservation Education | 3 |
| EdP | 250 | Psychology of Learning and Development (01) | 3 |
| EdP | 250 | Psychology of Learning and Development (02) | 3 |
| EdP | 351 | Evaluation and Measurement | 2 |

## SCHOOL OF HEALTH AND PHYSICAL EDUCATION

### Health Education

| | | | |
|---|---|---|---|
| HEd | 150 | Health | 2 |
| HEd | 354 | Seminar in Health Education | 3 |

### Physical Education

| | | | |
|---|---|---|---|
| PEd | 455 | Applied Physiology | 3 |
| PEd | 481 | Education for Safe Living | 3 |
| PEd | 484 | Methods and Materials of Safety Education | 3 |

## SCHOOL OF MUSIC

| | | | |
|---|---|---|---|
| Mus | 121 | Fine Arts [Music] | 3 |
| Mus | 231 | Music for the Primary Grades | 3 |
| Mus | 414 | Musical Acoustics | 3 |

## SCHOOL OF SCIENCES AND MATHEMATICS

### Biology

| | | | |
|---|---|---|---|
| Bio | 100 | Basic Biological Science<br>(Lab 1:00 to 3:00 Mon. thru Thur.) | 4 |

### Chemistry

| | | | |
|---|---|---|---|
| Che | 100 | Principles of Chemistry<br>(Lab 1:00 to 3:00 Mon. thru Thur.) | 4 |

### Mathematics

| | | | |
|---|---|---|---|
| Mat | 101 | Introduction to College Mathematics I (01) (Majors other than Elementary) | 3 |
| Mat | 101 | Introduction to College Mathematics I (02) (Elementary majors only) | 3 |
| Mat | 105 | College Algebra and Trigonometry | 3 |
| Mat | 108 | Mathematics for the Management Sciences II | 3 |
| Mat | 142 | Calculus II (Science majors only) | 3 |
| Mat | 351 | Teaching Mathematics in Elementary Schools | 3 |

### Nursing

| | | | |
|---|---|---|---|
| PSN | 306 | Prevention and Control of Communicable Diseases | 3 |

### Physics

| | | | |
|---|---|---|---|
| Sci | 150 | Basic Physical Science (Lab 1:00 to 3:00 Mon. thru Thur.) | 4 |

## SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

### Economics

| | | | |
|---|---|---|---|
| Eco | 201 | Principles of Economics—Survey | 3 |
| Eco | 333 | Consumer Economics | 3 |

### Geography

| | | | |
|---|---|---|---|
| Geo | 101 | World Geography | 3 |
| Geo | 208 | Geography of Latin America | 3 |
| Geo | 302 | Climatology | 3 |

### History

| | | | |
|---|---|---|---|
| His | 101 | History of Civilization I | 3 |
| His | 102 | History of Civilization II | 3 |
| His | 211 | History of United States I | 3 |
| His | 212 | History of United States II | 3 |
| His | 325 | History of the Twentieth Century World | 3 |

### Political Science

| | | | |
|---|---|---|---|
| PSc | 231 | American Government | 3 |

### Psychology

| | | | |
|---|---|---|---|
| Psy | 100 | Introduction to Psychology | 3 |
| Psy | 352 | Child and Adolescent Psychology | 3 |
| Psy | 370 | Mental Hygiene | 3 |

### Sociology

| | | | |
|---|---|---|---|
| Soc | 231 | Introduction to Sociology | 3 |
| Soc | 335 | Racial and Cultural Minorities | 3 |

# Summer Workshops and other Special Offerings

For all communications mentioned below, show name and title plus:

West Chester State College
West Chester, Pennsylvania 19380

## Laboratory School

The Laboratory School in the new Learning Research Center will be open during the Regular Session for the purpose of demonstrating teaching at the elementary level. Experience in elementary student teaching will be available for a limited number of students who file applications early in the spring.

## Workshop in Elementary Education (EdE 441)

**June 28 - August 6**

A workshop open to experienced teachers and college graduates, providing opportunity for study of newer practices in elementary education. Current problems will be shared by the members of the group. An experienced coordinator will lead discussions. Master teachers and the facilities of the Laboratory School will be utilized for demonstration and observance. Regular Session; 8 to 11 a.m. Four semester hours of credit. Students may elect an additional 3-credit course.

## Workshop in Community and School Health Education (HEd 451)

**June 28 - July 16**

A workshop for rural teachers, school nurses, health education specialists, and others engaged in health work. Three semester hours of credit. No additional courses may be carried during this three-week session. For information contact Mr. Walter E. Funk, Chairman, Department of Health Education, School of Health and Physical Education.

## Mental Health Workshop (HEd 452)

**July 19 - August 6**

A workshop designed to help educators improve their understanding of themselves and their students. Emphasis is on ways to recognize and cope with mental-health problems. Three semester hours of credit. No additional courses may be carried during this three-week session. For information contact Mr. Walter E. Funk, Chairman, Department of Health Education, School of Health and Physical Education.

## Family Life and Sex Education Workshop (HEd 400)

**June 28 - August 6**

Objectives, content, methodology, and evaluation of family life and sex education programs. Designed for prospective and in-service elementary and secondary school teachers, nurses, and other community leaders who work professionally with children or youth. Three semester hours of credit. For information contact Miss N. Ruth Reed, Department of Health Education, School of Health and Physical Education.

## Summer Music Workshop for High School Musicians

**July 6 - July 29**

A summer music workshop for serious musicians of high school age, sponsored by the School of Music. Offerings will include: band, orchestra, chorus, individual lessons, music theory, music appreciation, ensembles and dance band. Also: master classes in repertoire and literature for studies of voice and piano. Concerts, recitals, and special clinics, open to the public, are highlights. For brochure and application forms write to Mr. Frederick C. Pflieger, Workshop Director, School of Music.

**Music Workshop Fees: For commuting students (including accident insurance, individual lessons, activities fee, and full workshop privileges), $70. For resident students (including above plus room and board on campus for four weeks), $154.**

## String Conference and Chamber Music Workshop

**August 13 - August 22**

The Ninth Annual String Conference and Chamber Music Workshop, held in Swope Hall under the sponsorship of the School of Music and the Pennsylvania String Teachers Association. Master classes in each of the string instruments for both young people and adults, under a faculty of distinguished string authorities. Three string symphony orchestras (two for youth and one for adults) will be in daily rehearsal, culminating in gala performances. Chamber music ensembles, organized and coached by noted chamber music teachers; solo literature classes; guest lecturers and experts in many phases of string teaching and performance. The Conference will embrace complete programs for both adults and youth. For information and applications write to Dr. Constantine Johns, Executive Director of the String Conference, School of Music.

## Marching Band Conference and Workshop

**August 4 - August 7**

Swope Hall and the drill field will be the locales for this Conference, which will have Professor William C. Moffit, Director of the University of Houston Marching Band, as guest clinician. The four-day session is open to both college and high school students as well as band directors. Topics will include drill techniques, drum majoring, arranging, and music performance. For information contact Mr. James R. Wells, Director of Marching Band Conference, School of Music.

Cover photographs by Arthur W. Wilkinson '72

# Map of the Campus

West Chester State College Catalogue
WEST CHESTER, PENNSYLVANIA 19380
UNDERGRADUATE SUMMER SESSIONS 1971

Non-Profit Organization
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West Chester, Pa. 19380
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